



AUGUST 1992



Young Field Day Enthusiasts
See Page 27

**RENEWAL
REMINDER**



FCC Highlights ◊ ARRL Report ◊ VE Exam Schedule ◊ Public Service Report
DX Column ◊ Feature Articles ◊ Club Reports ◊ Want Ads ◊ Much More

Be a Know It All; Read Auto-Call

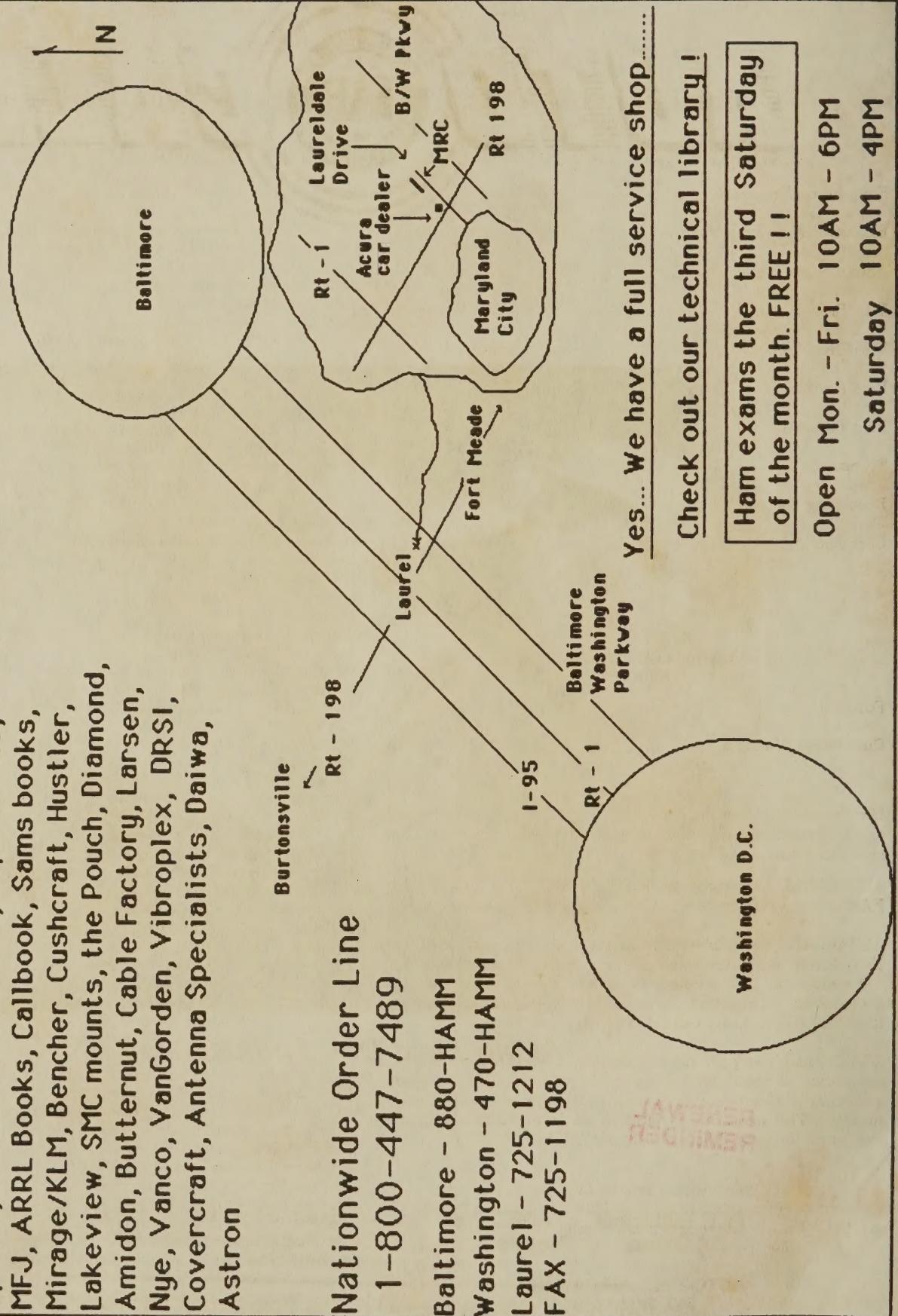
Auto-Call is the Official Journal of the Foundation For Amateur Radio

\$1.00

MARYLAND RADIO CENTER

Authorized dealer for :

Kenwood, Icom, TenTec, AEA, Kantronics, Spi-ro, Barker/Williamson, Alpha Delta, MFJ, ARRL Books, Callbook, Sams books, Mirage/KLM, Bencher, Cushcraft, Hustler, Lakeview, SMC mounts, the Pouch, Diamond, Amidon, Butternut, Cable Factory, Larsen, Nye, Vanco, Vangorden, Vibroplex, DRSS, Covercraft, Antenna Specialists, Daiwa, Astron



AUTO-CALL

Official Journal of the Foundation for Amateur Radio

FOUNDATION OFFICERS

Foundation President	Tony Young, WA3YLO (301) 262-1917
Executive Vice President	Mary Morris, N4TCI (703) 971-3905
Admin. Vice President	Henry Miller, W3BWN (301) 474-7376
Vice President	Robert Armstrong, WA4SQL (703) 751-2294
Vice President	Hugh Turnbull, W3ABC (301) 927-1797
Vice President	John Chitwood, K3RGB (301) 799-7360
Vice President	Phil Russo, N3GDD (301) 552-2065
Treasurer	Mildred Mumford, N3KGQ (301) 577-6659
Recording Secretary	Joe Seasely, KA3UZI (301) 725-5822
Corresponding Secretary	Ethel Smith, K4LMB (703) 536-8469

MEMBER CLUBS

Adams County Amateur Radio Society
Alexandria Radio Club
Amateur Radio Research and Development Corp.
AMSAT - Radio Amateur Satellite Corporation
Anne Arundel Radio Club
Antietam Radio Association, Inc.
Arlington Amateur Radio Club
Baltimore Amateur Radio Club
Baltimore Radio Amateur Television Society
Capital City Amateur Radio Society
Capitol Hill Amateur Radio Society
Columbia Amateur Radio Association
D-MARC - Digital MidAtlantic Radio Council
Department of State Amateur Radio Club
Fauquier Amateur Radio Club
Frederick Amateur Radio Club
Frederick Amateur Repeater Group
Friendship Amateur Radio Club
Goddard Amateur Radio Club
Green Mountain Repeater Association
Herndon Repeater Group
IBM Amateur Radio Club
Laurel Amateur Radio Club
MADRAS
Maryland Emergency Phone Net
Maryland FM Association
Maryland Mobileers Amateur Radio Club
Mercury Amateur Radio Assn., NE Area
Metropolitan Communications Network Radio Club
Metrovision Amateur TV Club
Montgomery Amateur Radio Club
Montgomery Auxiliary Communications Service
Mount Vernon Amateur Radio Club
National Capital DX Association
Naval Research Laboratory Radio Club
New Carrollton Amateur Radio Society
Northern Virginia FM Association
Northern Virginia Radio Club
Ole Virginia Hams Amateur Radio Club
Pentagon Amateur Radio Club
Potomac Area VHF Society
Potomac Valley Radio Club
Prince George's Wireless Association, Inc.
Prince George's County ARES/RACES
Quarter Century Wireless Association, Inc.
Baltimore Chapter #20
Shenandoah Valley Chapter #137
Vic Clark Chapter #91
Washington Chapter #23
Rock Creek Amateur Radio Association
St. Mary's County Amateur Radio Association
Shenandoah Valley Amateur Radio Club
Southern Maryland Amateur Radio Club
Southern Patuxent Amateur Radio Club
Stafford Amateur Radio Assn
Sterling Park Amateur Radio Club
Summit Amateur Radio Association
Tri-County Amateur Radio Club
T-MARC, The Middle Atlantic FM & Repeater Council
Vienna Wireless Society
Voice of America Amateur Radio Club
Washington Adventist Amateur Radio Association
Woodbridge Wireless, Inc.

AUTO-CALL MAGAZINE STAFF

Editor	Ethel Smith, K4LMB (703) 536-8469
Circulation Manager	John Swafford, W4HUV (703) 536-9537

Deadline for copy is the 5th of the month. All contributions are welcomed, but the editor does reserve the right to edit or reject any portion of any copy.

AUTO-CALL Copyright © 1992. Permission is granted by FAR to reprint from this publication provided credit is given.

AUTO-CALL is published monthly as the official journal of the Foundation for Amateur Radio. Comments made by columnists do not necessarily reflect the opinions of the Foundation. No effort is made to investigate advertisers, therefore no warranty can be implied.

AUTO-CALL has paid subscriptions of over 1700 and a total circulation of about 2000. Copies are sold at local stores and a number of Complimentary and Swap copies are mailed each month. The magazine is entered as third class non-profit matter at the post office at Arlington, VA.

Subscription rate is \$8 a year.

Subscriptions received after the 15th of the month will be started with the following month's issue.

AUTO-CALL MAGAZINE
P.O. BOX 7612
FALLS CHURCH, VA 22040-1452

EDITORIAL

Tony Young - WA3YLO

President, Foundation for Amateur Radio

The Friendliest People

The more I deal with area clubs, the more I am convinced that Amateur Radio is one of the most friendly national groups in America.

The most recent example is the welcome given the no-code hams entering the hobby. The fact is that a sincere welcome often results in enthusiastic interest in upgrading, to share the rest of the ham modes.

While most individual hams are friendly by nature, the club atmosphere showcases the hobby's greatest strength. Whatever the need, help is just a question away. Why struggle with used equipment and no manuals when someone would be glad to show how to operate the gear (and probably has a copy of what you need from their manuals.)

Ideas for shack configuration, safety, antenna locations and types, best bands for your interests, upgrade material, code Elmers, used gear, and much more is waiting for the asking at club meetings. The key words are "friendly help," and that IS ham radio.

Most readers of Auto-Call are area club members, but some have not yet become a member of a nearby club. (We have more than 75 clubs in the area). Many of these clubs are Special Service clubs and/or fill many public service needs. It is amazing how MUCH is done by people who wouldn't consider doing that kind of work if it were a paying job!!

Consider the effort required to run the several hamfests in the greater Washington area. Hundreds of hams spend thousands of hours on behalf of a club or organization, out of loyalty and dedication. The Foundation for Amateur Radio benefits each year from the "friendly helpful" attitude of hundreds of local club hams.

To all of those people of whom I speak, thanks. It was the warmth of a helpful ham that got me involved, and those like him that keep me involved and loving it.

Tony - WA3YLO

INDEX

COLUMNS

ARRL REPORT	11
DX COLUMN	21
ELMER'S CORNER	23
FCC HIGHLIGHTS	7
MEET THE FAR OFFICERS - WA4SQL	26
PUBLIC SERVICE REPORT	15
RECOGNITIONS	28
SILENT KEYS	26
TRAINING	18
VOLUNTEER EXAMINER CO-OP.	19
WANT ADS	49

CLUB REPORTS

Adams County Amateur Radio Society	35
AMRAD	39
Anne Arundel Radio Club	44
Department of State ARC	40
Goddard Amateur Radio Club	34
Herndon Repeater Group	38
Metropolitan Communications Net	47
Montgomery Amateur Radio Club	41
Northern Virginia FM Association	36
Pentagon Amateur Radio Club	42
Prince George's Wireless Assn.	31
Shenandoah Valley Amateur Radio Club	45
Springfield Estates Elementary School	27
Stafford Amateur Radio Association	46
Sterling Park ARC	30
T-MARC Repeater Council	40
Tri County Amateur Radio Club	37
Vienna Wireless Society	32
Voice of America Amateur Radio Club	33
Woodbridge Wireless, Inc.	43

ADVERTISERS

EEB Electronic Equipment Bank	10
G & G Electronics	50
Ham Radio Outlet	6
Maryland Radio	2
R.F. Connection	9
Skypoint Ham Center	47
Williams Radio	14

Coming Events

July 26	BRATS Hamfest and Computer Fest, Timonium, Maryland	
Aug 2	Shennandoah Valley Hamfest, Berryville, Virginia	(Page 29)
Aug 8-9	Maryland/DC QSO Party. Info WA3AAT or WA3EOP	(Page 24)
Aug 16	Southern Patuxent Hamfest, Upper Marlboro, Maryland	(P 25)
Aug 20-23	ARRL National Convention, Los Angeles, CA	
Sep 5-6	Shelby Hamfest, Shelby, North Carolina	
Sep 13	F.A.R. FEST, Gaithersburg, Maryland	(Page 48)
Sep 19-20	Virginia Beach Hamfest, Virginia Beach, Virginia	(Page 46)
Sept ?	ARRL Computer Networking Conference, Northern New Jersey	
Oct 8-10	AMSAT Space Symposium	(Page 33)
Oct 10-11	DXPO-92 Holiday Inn, College Park, MD	
Oct 11	Columbia ARA Hamfest, Howard County Fairgrounds	
Oct 18	Cumberland County Hamfest, Carlisle, Pennsylvania	
Nov 1	Mason-Dixon Hamfest, Westminster, Maryland	
Dec 6	HolidayFest '92, Largo, Maryland	
Dec 11	Southern Maryland ARC Annual Christmas Dinner/Meeting, Camp Springs, MD Elks lodge.	

1993

Apr 23-25	Dayton Hamvention
Jul 17-18	Southeastern Division Convention, Atlanta, Georgia
Aug 13-15	ARRL National Convention, Huntsville, Alabama

1994

Apr 29,30 & May 1	Dayton Hamvention
June 10-12	ARRL National Convention, Dallas, TX

1995

Apr 28-30	Dayton Hamvention
-----------	-------------------

Thanks to Bob Milligan - KI4MB and the SERA Repeater Journal for providing much of the above information. Please keep Auto-Call advised of coming Hamfests and other important Coming Events. We are anxious to provide our readers with timely information and help to avoid possible conflicts when scheduling activities.

We can use all the help we can get!



HAM RADIO OUTLET

WORLDWIDE DISTRIBUTION

— 11 STORE BUYING POWER —



CALL TOLL FREE
(800) 444-4799
Woodbridge, VA

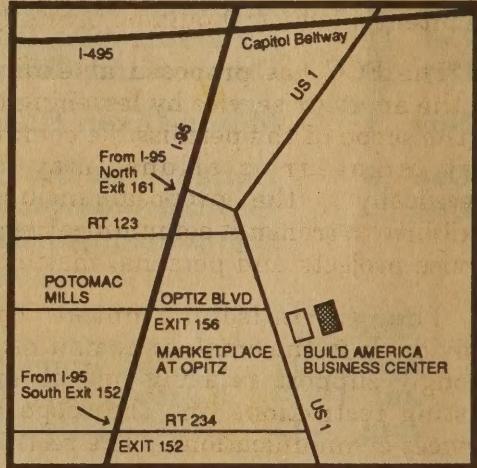
WOODBRIDGE, VA 22191
14803 Build America Drive
(703) 643-1063 Metro
(703) 494-8750 Local
19 Miles south of DC, exit 161, I-95

CALL, WRITE OR STOP BY FOR
YOUR FREE 92 PAGE CATALOG

THANK YOU FOR ALLOWING US
TO SERVE YOU

Curtis WB4KZL (Manager)
Chuck KM4NZ
Jerry WA2VGV
Mike KA3TMQ
John N4LJS

Louis KC4HR
Penny KD4BPR
Michael N4USI
Tami Office Mgr
Phil Shipping



CALL TOLL FREE
(800) 444-4799

All These Major Brands In-Stock
and Much, Much More
at Discount Prices

CALL TOLL FREE
(800) 444-4799



FCC Highlights

by Jack Kelleher - W4ZC

Permissible Communications in the Amateur Service.

In the March 1992 issue of Autocall we reported on ARRL proposals to amend Part 97.113 of the FCC Rules for the Amateur Service. The Commission acted on these proposals on June 18, and the Notice of Proposed Rulemaking was issued on July 2 (PR Docket 92-136). The deadline for comments is October 1, 1992, and for reply comments December 1, 1992.

The Commission's News Release on this matter is quoted in the following paragraphs, rather than summarized; this is an important milestone in regulation of the Amateur Service, the intent of which should be precisely reported.

"The FCC has proposed amending its rules for the amateur service by lessening restrictions on the scope of the permissible communications that amateur stations may transmit. Specifically, the proposal includes greater flexibility to transmit communications for public service projects and personal matters.

"The Commission noted that many individuals in the amateur community appear to strongly support relaxing one or more of the existing restrictions on the scope of amateur services communications. The restrictions were designed to protect the non-commercial character of the amateur service and ensure its basis and purpose i.e., as a reservoir of volunteer communicators, technicians and electronics experts dedicated to advancing the radio art, to provide public service communications particularly in times of emergencies, and to enhance international goodwill, could be carried out. While eliminating some of the existing restrictions would provide the flexibility to expand public service activities and satisfy the personal communications interests, the potential for commercial exploitation and abuse of the amateur service's allocated frequencies could increase.

"Specifically, the Commission proposed the revision suggested by the American Radio Relay League. This revision would allow amateur stations to transmit occasionally certain types of communications that are now prohibited. The

intent of the suggested revision is to allow amateur operators who so desire greater flexibility to increase their public service communications activities, for example, in support of parades, races, and other such public gatherings. The general prohibition against amateur stations transmitting messages for hire or for material compensation, direct or indirect, however, would remain in the rules.

"These proposals are not intended to alter in any way the nature and purpose of the amateur service. The proposed changes, however, would increase the amateur community's responsibilities for self-regulation and cooperation in the use of their allocated frequencies." Form 610 Revised (Thanks W5YI Report, June 1)

The FCC Forms Distribution Center has received a large shipment of revised "Application for Amateur Radio Station/Operator License", Form 610. It carries an issue date of March 1992 although just received at the forms warehouse last week.

This is the first revision in more than 2 years, and carries an expiration date of February 28, 1995. It is 6 pages long due to 4 pages of instructions. Here are some of the changes:

- The new form now includes the Physician's Certification of Disability and Patient's Release needed for handicapped 13/20 wpm telegraphy exemptions. It is no longer necessary to submit another form with the application to obtain a handicapped telegraphy exemption. VE's are instructed to write in the letter "H" in the Administering VE's Report in item C under Element 1C.
- Applicants are now required to initial all requests for a call sign change (Section 1, line 2E).
- Section 1, line 6 (Date of Birth) now has hyphens (rather than slant bars) to eliminate the possibility that slant bars might be mistaken for the figure "1". Instructions now require that two figures be placed in each of the month, day and year spaces. For May 1, 1947 write 05-01-47 (Not 5-1-47).

(Continued)

FCC HIGHLIGHTS - Continued

Amateurs concerned about RF Lightbulbs (ARRL Letter, June 11)

A new rf-powered light bulb design announced recently is not yet in production nor are engineering samples available. Although the manufacturer, Intersource Technologies Inc. of Sunnyvale, California, says the bulbs are expected to meet FCC Part 15 rules regarding incidental interference, many radio amateurs have expressed concern about the bulbs.

A spokesman for General Electric Company's lighting division, quoted in the Washington Post, said GE felt the idea was not marketable at this time, citing concerns about interference to radio receiving devices, among others.

Tom Moore, a spokesman for Intersource, said the company has received a number of calls from amateurs, mostly neighbors in Silicon Valley, many of them offering to "beta test" the bulbs when they become available.

Moore said he expects that the bulbs will have to be FCC type accepted. When asked about the possibility of a nearby transmitter lighting up one of the bulbs, he said it was Intersource's belief that it would take a transmitter many times the power of an Amateur Radio set to be able to do so.

The bulbs as currently envisioned would operate at 13.56 MHz, within the Industrial, Scientific and Medical Band (Ed. note: that ISM band is 13.56 MHz plus and minus 7 kHz). 25 watts of rf power would produce the same amount of light as that from an ordinary 100 watt incandescent bulb. The bulbs would use a crystal oscillator, power amplifier, and a coil-type antenna to "couple high frequency electrical energy into a mercury vapor plasma."

The ARRL technical department will conduct tests on sample bulbs as soon as they are available.

VEC's Annual Conference (thanks W5YI Reports June 15)

Volunteer Examiner Coordinators representing more than 98% of all amateur radio operator license examinations conducted in the Amateur Service met on June 11 and 12 in Gettysburg Pennsylvania at their annual conference. Twelve out of the eighteen VECs were present at the meeting along with several FCC officials.

In his opening remarks, Personal Radio Branch Chief John B. Johnston congratulated the VEC System for efficiently coordinating 41,000 exam sessions, examining 477,000 applicants and administering 777,000 test elements in its nine years of operation since 1984. "That is a record for which you should be very proud".

FCC Opens Door to "smart house" development (tnx ARRL Letter June 24)

The FCC is changing its Part 15 rules to encourage development of so-called "smart house" systems for consumers. These systems, designed to provide automation and communications within a dwelling through RF signals carried by house wiring or television antenna wiring, are of interest to amateurs because of their potential for RFI.

At an open meeting of the FCC on June 18 the issue of RFI was not addressed, although ARRL had made its concerns known in comments to the FCC. The commission's Office of Engineering and Technology (OET) did not refer to RF susceptibility in their presentation to the commissioners, and the commissioners themselves made no reference to it.

One OET staff engineer later said, in essence, that RF susceptibility was outside the scope of the Notice of Proposed Rulemaking, and even though one commenter (the ARRL) raised the issue, it was not incumbent upon the Commission to address it. Furthermore, he said that the Commission had chosen not to address the issue for regulatory purposes, as it was not a significant problem.

The specific changes to Part 15 rules are not yet available. The Commission's initial release on the subject (ET Docket 91-269) does say the changes will "encourage such manufacturers (of smart home systems) to design their systems to avoid interference to AM broadcasting by placing restrictions on the amount of radio frequency energy that can be conducted onto the AC power lines within the AM broadcast band".

HR-73 & S-1372

In our May column on this proposed legislation we quoted from a letter from FCC Chairman Sikes to Representative Cooper, that "This legislation, if enacted, will significantly restrict

FCC HIGHLIGHTS - Continued

the Commission's ability to fulfill one of its primary functions -- managing the radio spectrum". Also: "The effectiveness of the Commission's spectrum management program is dependent on the ability to alter dynamically the table of frequency allocations" "To constrain, if not freeze, the Commission's ability to manage the spectrum for one service, inevitably, will constrain our ability to deal effectively with all services".

FCC's activity is part of a national spectrum management program involving FCC for non-government allocations, and the National Telecommunications and Information Administration for government allocations. In this connection we saw this item in the ARRL Letter for June 24:

"The National Telecommunications and Information Administration has opened a broad-based inquiry into the future requirements for the use of the radio frequency spectrum in the United States, and technology trends that would affect use of the radio spectrum.

"The inquiry seeks comments by October 1, 1992. NTIA intends to issue a report on national spectrum requirements and technologies and to use the information and analysis as the basis for more effective long-range planning for national spectrum management.

"The full text of the Notice of Inquiry occupied 13 pages of the June 12 Federal Register. Two paragraphs on Amateur Radio posed the following questions for the Amateur Service:

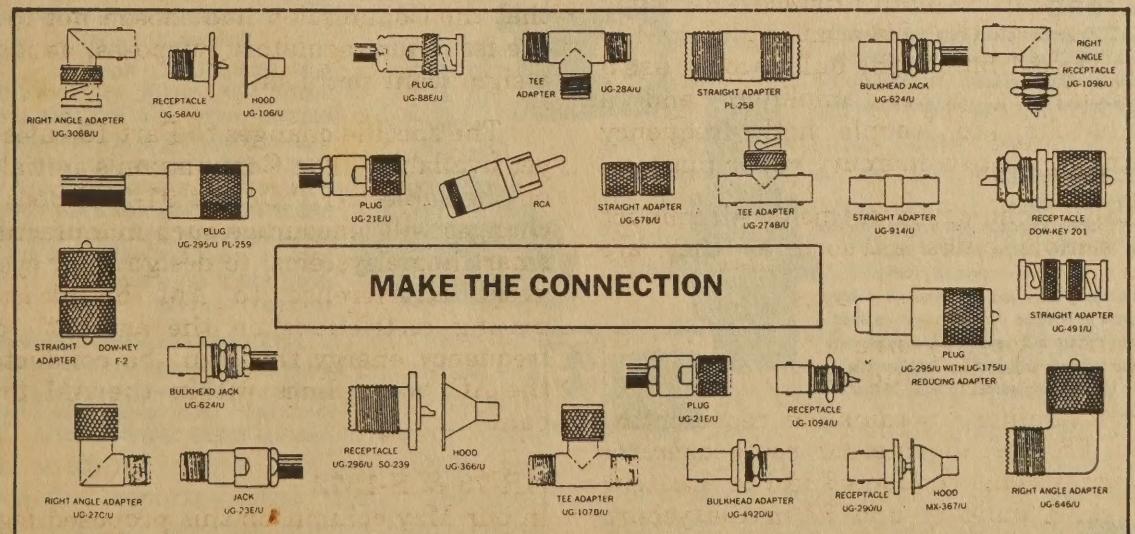
- What factors could either increase or reduce the spectrum requirements of the service?
- Is the current spectrum available to amateurs adequate? - What new techniques may increase the ability of the Amateur Service to share with other radio services in certain frequency bands?"

Benjamin Franklin wrote, in 1758: "A word to the wise is enough, and many words won't fill a bushel".



The R.F. Connection

"SPECIALISTS IN RF CONNECTORS AND COAX"



The R.F. Connection
213 N. Frederick Ave., Suite 11, Gaithersburg, MD. 20877
301-840-5477

✓280

THE NEW GENERATION ROTATORS

THEY'RE NOT YOUR FATHER'S HAM "M"

Rotator Comparison Chart

Model/Specs	Create RCS	Create RCSA	Create RCSB	Emoto 105TSX	Emoto 747SRX	Emoto 1105MSX	Emoto 1200FDX	Emoto 1300MSX	Emoto 1800FSX	Old Generation
Rotator Torque Fwd	43	116	160	37	50	57	143	215	287	67
GD2 Kgm ²	N/A	N/A	N/A	100	400	700	1000	1800	3000	N/A
Ant. Inertia										N/A
Brk. Static Torque Fwd	506	1085	1450	215	502	717	1290	1792	2150	417
Wind Load in Tower (lb)	10	25	25	11	22	27	27	33	36	15
Mast mount	4	5	7	5	9	12	12	15	16	7.5
Housing speed 360°	60-150 sec	60-150 sec	60-150 sec	55	35	65	40	77	80	60
Rev. Delay	variable	variable	variable							
Preset	None	2 sec	3 sec							None
Computer	no	no	no	10	yes	yes	yes	yes	yes	no
Power	80VA	140VA	200VA	70VA	70VA	70VA	90VA	120VA	150VA	26V AC
20V 60Hz										26V AC
Wind Dir.	2-2.5 in	2-2.5 in	2-2.5 in	2-2.4 in	1-6.2 in	1-6.2 in	1-6.2 in	1-6.2 in	3.5-5.5 in	2 in
Control wire	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	7 cond	8 cond
Vertical mast load #	880	1540	1540	660	1100	880	1760	1760	2200	400
Motor w/s	13	17	20	7.5	9	11	11	13	39.5	24
Brake type	worm drive	worm drive	worm drive	disk	friction	friction	friction	friction	friction	wedge
Sent center mast clamp	yes	yes	yes	Adj	Adj	Adj	Adj	Adj	Adj	no
Conical nozzles	3-6	3-6	3-6	6	1-6	6	2-6	6	6	4-7
Weight (lb)	\$269.00	\$449.95	\$799.00	209.95	399.00	589.00	679.00	1099.00	3272.00	369.95
With Preset	\$379.00	\$528.95				\$663.00				\$439.95

Notes:

- 1 Turns Tribander 470° in 35 seconds
- 2 72X and HamIV have same motor and gear train parts
- 3 120/220 normal 220V special order

2 Variable speed 40 sec max

5 EEB prices as of 5/91 sub to change

8 Wind Load in Sq. Feet

3 Variable speed w/SCR constant rotational torque at any speed

6 120/220 tapied transformer

THE NEW GENERATION

An entire generation of amateurs have grown up knowing only one rotator manufacturer. Those old favorites are still popular. But, now a new generation of rotators are out to set high standards with innovative features such as: large machined steel gears, cast and machined aluminum cases, solid state controllers for smooth start/stop, preset, computer control and circular position indicators.

The bottom line is... strong, long term reliability, ease of operation and cost effectiveness. When you erect an antenna system the last thing you need is rotor problems!

CREATIVE DESIGN ROTATORS

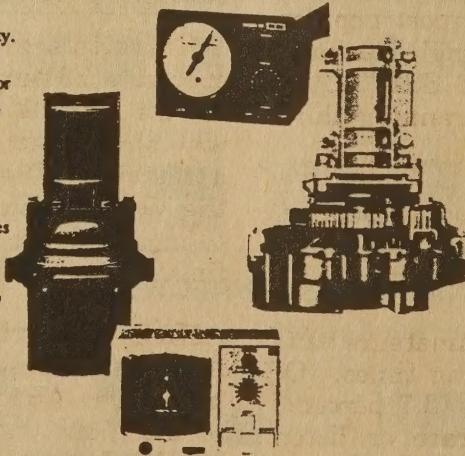
CREATE is serious about long term reliability. The CREATE RCS series rotators were designed with the serious DX'er in mind. Three models for medium, large and ultra large antenna arrays are available.

ROTOR FEATURES OF RC5 SERIES

* Large strong reduction gear system provides long term reliability during years of rugged operation. * Worm drive gearing provides powerful braking force and low backlash to keep your antenna in position during severe weather conditions. * Cast and machined aluminum case provide the strength required for long lasting service. * Mast clamp guides for ease of mast installation.

CONTROLLER FEATURES OF RC5 SERIES

* Speed control using silicon control rectifiers allows slow speed without reduction in rotation torque. Rotating spec is constant 60 to 200 seconds per 360 degrees. * Reverse delay control (RDC). Delays reverse command to rotor until antenna is at rest. Prevents damage to rotor antenna and tower system. * Circular dial indicator, for quick accurate reading of antenna direction. Great circle overlay available for USA (west-cent-east). * Preset (on 3 models) a must for quick setting of antenna direction. Just turn the knob to the new heading, the rest is automatic. Won't waste your time holding down the brake lever and wait.



EMOTO ROTATORS

More than 60% of all Japan amateurs use EMOTO rotators. Many unique innovations and international patents have made EMOTO number one.

EMOTO has a fool proof method to calculate which of their rotators will satisfy your needs. This GD2 formula considers your antenna (s) weight, boom and longest element length. The EMOTO sheet is in metric so one must convert weight 2.2lb= 1kg and length in meters 3.3ft=1 meter. Calculate your GD2 then compare EMOTO GD2 spec above.

$$GD^2 = W \times \frac{L^2 + B^2}{12}$$

Where: W: weight of antenna (kg)
L: length of longest element (m)
B: length of boom(m)

GD² EXAMPLES: Kgm²

TH7DX (437), TH3JR (63), 205BA (675), DISC7-3 (1300), A3S (61), A4S (173), KLM KT34XA (378), 3 ELE TRIBAND (150), 6 ELE TRIBAND (400), 20M 5 ELE (750), 15M 6 ELE (650), 40M 2 ELE SHORT BOOM (240), 40M 2 ELE FULL BOOM (800), 80M 2 ELE (1500), STACK ARRAYS 10M 5 ELE (60), 15M 5 ELE (200), 20M 5 ELE (750),
60+200+750=1010

EMOTO also has a robust AZ-EL rotator that has computer I/O ports. For those working satellites or EME moon bounce the EV700D5X should do the job, as rotating torque is more than double the YAESU GS400B AZ-EL.

Electronic Equipment Bank 323 Mill Street, N.E. Vienna, Va. 22180
Phone (703) 938-3350 Orders 800-368-3270
Call - Write - FAX - for full detailed flyer
EEB Your Professional Amateur Dealer

EEB
Electronic Equipment Bank

American Radio Relay League Report

By John Swafford -- W4HU

This ARRL Report provides a brief summary of information published in the ARRL LETTER and other reports. The LETTER provides timely news of interest to active Radio Amateurs. Any League member may subscribe to the ARRL LETTER.

Survey Gauges Interests of

Young Amateurs. The ARRL has completed a survey of young Amateurs to learn more about their operating interests and habits. As of May 18, 214 usable responses had been received from 1,000 sent to a random sample of the more than 16,000 Amateurs under the age of 18.

For the particular purposes of this survey, a statistically valid sample was not required; therefore, no follow-up mailings or other contacts with non-respondents were attempted. Only 13 of the 214 respondents reported no Amateur Radio activity, well below the level of inactivity generally observed in the licensee population. Therefore, the League felt it was reasonable to assume that non-respondents are more likely than respondents to be inactive.

Respondents are believed to reasonably represent that portion of the target population that is active in Amateur Radio, but not of the target population as a whole.

By far the most popular bands used by young radio Amateurs are 2 meters (144-148 MHz) and 10 meters (28.0-29.7 MHz). The most popular operating modes are FM and single-sideband (more use FM than SSB, but SSB is the favorite), with CW and packet ranking third and fourth, respectively.

DXing, talking with friends, public service, and making new friends were most frequently mentioned as favorite on-the-air activities.

The survey showed that young Amateurs have particular preferences for operating times. Of the 214 respondents, only eight (3.7 percent) reported that they usually operate or listen between midnight and 6 a.m. Only two (0.9 percent) reported that they were most likely to listen or operate during that period, as opposed to 111 (51.9 percent) who said they were least likely.

At all other times of the day, at least 15 percent of the respondents said they "usually" operated or listened. When asked how many hours a week they devote to Amateur Radio operating, including listening, more than 60 percent reported between one and six hours.

Respondents were asked what the League could do to "increase your Amateur Radio interest and enjoyment?" Suggestions ranged from ARRL-sponsored youth nets and other activities on the air to the resumption of a QST column for young people.

New QST Series Addresses interests of New Amateurs. "Wally and Mike" make their first appearance in July QST. Wally, an Old Timer, helps new ham Mike over hamming's learning hurdles in this conversational series of stories. Assistant Technical Editor Jim Kearman - KR1S is the author.

"Newcomers need help learning to be good operators, but we can't blame them for that," says Kearman. "It's up to experienced hams to help them, with polite suggestions and by setting a good example."

Characters in this series will represent the spectrum of Amateurs, from kind-hearted old timers like Wally, to mean, nasty types who simply attack other hams for making a mistake. "The first few stories take place on the VHF FM bands, but I plan to get around to most of the operating modes before I'm finished," Kearman said.

ARRL Atlantic Division Makes Annual Awards. Bob Josuweit - WA3PZO, has been named the ARRL Atlantic Division's Amateur of the Year. Josuweit has been a member of the League's Public Service Advisory Committee since 1979, and served as the Eastern Pennsylvania Section Emergency Coordinator for nine years.

(Continued)

ARRL REPORT - Continued

He played key roles, according to the award nominating committee, in Amateur communications during the 1977 Johnstown flood, Hurricane Agnes, and the Three Mile Island nuclear power plant accident.

Most recently, Josuweit, of Philadelphia, helped in planning for Amateur communications under the National Disaster Medical System during the U.S. war with Iraq.

In 1980, he was a member of the Olympic Torch Relay Team for the Winter Olympics in Lake Placid, N.Y., and was selected to lead the parade at the tenth anniversary of those Olympics, in recognition of the contribution made by Amateur Radio to the event.

Others Receive Awards. Sharing the Atlantic Division Technical Achievement Award were David Halliday - KD5RO of Pittsford, N.Y., and David Mascaro - WA3JUF of Ottsville, Pennsylvania. The committee's vote was a tie, resulting in the dual awards.

Halliday, past president of the Rochester VHF Group, also has been an official of the North Texas Microwave Society and the Central States VHF Society. He holds several VHF/UHF distance records and has contributed articles to both QST and QEX.

Mascaro, an active member of the Mt. Airy VHF Radio Club ("Pack Rats") has published technical articles in QST, QEX, and Ham Radio magazine. The committee recognized his "readiness to become involved in helping other Amateurs become more proficient operators and solve their technical problems"

Finally, the Division conferred its "Grand Ole Ham" award on Clarence Snyder - W3PYF of Easton, Pennsylvania. First licensed in 1947, Snyder has been an "Elmer" for many new Amateurs and has been a radio merit badge counselor for the Boy Scouts of American since the 1940s.

The awards were presented at the ARRL Atlantic Division Convention, held May 16 in conjunction with the Rochester (N.Y.) Hamfest.

New Repeater to Support Experimentation on ACSSB. A new repeater in southern California will be devoted to Amplitude Compandored SSB and is expected to be

installed the first of July. Operating on 144.895 (input) and 145.495 (output) under the control of Don Moberly - WB6LFC, the repeater is expected to cover five counties: Los Angeles, Orange, Riverside, San Bernadino, and parts of San Diego, from its 6,000-ft elevation site on Sunset Ridge near Los Angeles.

Moberly hopes the repeater will allow a wide area for testing of the ACSSB mode and "allow a lot of user access and experimental activity." It is generally believed that ACSSB, which is usable with a properly set-up standard SSB transceiver, has a range of as much as twice that of FM while retaining nearly the same quality of noise avoidance as FM.

For more information contact Moberly at (310) 333-7389.

League Inaugurates Washington DC Office. On July 1 the League opened its new Washington office, co-located with the law firm of Booth, Freret and Imlay, in Suite 204, 1233 20th Street Northwest, Washington D.C. 20036.

Concurrent with the opening of the new Office, ARRL Manager of Technical Development Paul Rinaldo - W4RI will become Technical Relations Manager in the Washington office. Rinaldo has been based at the League's administrative headquarters in Newington, Connecticut. Rinaldo will be responsible for day-to-day contact with federal agencies.

ARRL Washington Area Coordinator Perry Williams - W1UED will continue to conduct legislative affairs both from the League's Washington and Newington offices.

The move will make the League's liaison with government more efficient and cost-effective. "With Paul Rinaldo's increasing involvement in telecommunications responsibilities in Washington, he has been spending more time there than in Newington," ARRL Executive President David Sumner said.

Replacing Rinaldo as editor of QST effective with the August issue is ARRL Publications Manager Mark Wilson - AA2Z.

Rinaldo was very active in the Washington area and with the AMRAD organization prior to taking the position in Newington.

ARRL REPORT - Continued

ARRL National Convention Speaker

Wins Congressional Primary. Dick Rutan - KB6LQS, co-pilot of the December, 1986 record setting around-the-world flight of Voyager and the scheduled keynote speaker at the 1992 ARRL National Convention, has won the Republican Party's nomination for the U.S. Congress from California's 42nd District. Rutan, in a primary election on June 2 defeated three other candidates for the opportunity to run in November against 14-term Rep. George E. Brown for the seat from the newly-redistricted 42nd district.

On May 29 Rutan was joined by former Sen. Barry Goldwater - K7UGA, by Barry Goldwater Jr., and two California Republican congressmen for a fund-raising dinner; Rutan flew his Beech Baron to Phoenix to pick up K7UGA (who also is a pilot).

Rutan agreed to be the ARRL National Convention speaker before becoming a congressional candidate. Not-for-profit organizations such as the ARRL are prohibited from influencing elections, and a platform offered to one candidate must be available equally to others. At press time, League officials were working to resolve the question. The ARRL National Convention will be held in Los Angeles the weekend of August 22.

Three More NASA Astronauts Pass Tech Exams at Ham-Com. Three more NASA astronauts have passed their Technician examinations. All three took the test at the Ham Com convention in Dallas-Ft. Worth the weekend of June 6, and are schedules to join pilot Ken Cameron - KB5AWP on a shuttle mission in March 1993.

The three new ham-astronauts are Ellen Ochoa, Mike Foale, and Ken Cockrell, Foale is reported to have bought a 2-meter rig at the convention and is gnashing his teeth waiting for his ticket to arrive.

Cameron last flew on STS-37 in April 1991, a Shuttle Amateur Radio EXperiment flight reported in QST for July, 1991.

Briefs.

o The seventh annual AMSAT-UK Satellite Colloquium, covering OSCAR satellites and digital communications, will take place July 30 through August 2 at the University of Surrey, near London, England. Question-and-answer sessions with satellite experts are planned, as well as a Saturday evening "social" and a junk sale.

o AMSAT-NA's 1992 annual meeting and space symposium will be held October 9-11 in Washington, D.C. Featured will be papers on a wide variety of topics of interest to the Amateur Radio space community, including development of the Phase 3-D satellites, the Shuttle Amateur Radio EXperiment (SAREX) program, and packet radio use on amateur satellites.

o At the 37th Annual West Coast VHF-UHF Conference held May 15-17 in Ventura, California, a number of attendees formed The Western States VHF/Microwave Society "to represent the interests of the weak-signal community in national and local band planning," according to a press release.

The new group voted to adopt the ARRL national 222 MHz band plan (which sets aside 222.000 to 222.150 MHz for weak-signal work) and to endorse the notion that weak signal segments must be uniform throughout the country.

o Several ARRL Headquarters staffers have passed their first Amateur Radio license examinations, including Dave Pingree, Beverly Nesta, Carole Dimock, Penny Harts, Hanan Alquaddumi, and Tracy Simpson. Their Elmer is Assistant Technical Editor Steve Ford - WB8IMY, who conducts noon-time classes.

o ARRL Oklahoma Section Manager Joe Lynch, N6CL, is the author of an article appearing in the August issue of *Sky and Telescope*. He tells the readers how radio and television can be a new and interesting way to monitor the Perseids meteor shower (on August 12 this year). Lynch, VHF editor of *CQ* magazine, credits Mike Owen, W9IP, for both fact checking the article and for background provided by Owen's article in June 1986 *QST*.

xxx

Williams
Wrote
The
Book
On
Customer
Service
18 Years
Ago!

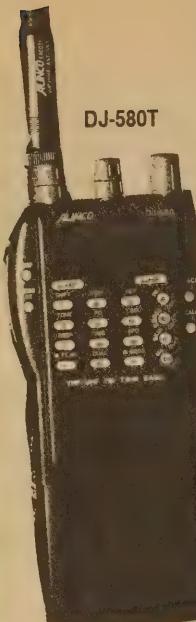
Get The
Very
Best
Deal
From
Williams
On Your

ALINCO
ALINCO ELECTRONICS INC.

Williams
Radio
Sales

600 Lakeland Rd.
Colfax, NC 27235

(919)993-5881
Noon to 5:00 PM
7 PM to 10 PM
Mon.-Fri.



DJ-580T



DJ-560T

Go With The Winners ALINCO & Williams Radio

ALINCO DJ-580T - Our Newest Twin Band 2/70 Handheld. The DJ-580 has new ergonomic design, excellent sensitivity and great new sound. W-I-D-E receive coverage, 40 Memories, re-assign memories to VHF or UHF as needed. CTCSS encode & decode, cross band repeat, backlit keypad, & LCD readout, Auto. power off, and battery save, autodialer, DSQ paging and much more. 5.6x2.3x1.3in., 14.4 oz. Call for Williams' Outstanding Deal!



DJ-F1T

ALINCO DJ-F1T - Our best 2-Meter Mini H/T. 40 Memories, 3W, 700 mah battery all packed in a 4.3-in case. CTCSS Encode, DSQ, lighted keypad, autodialer, AM aircraft 8 modes of scan, 5W version available. Also 5W on Direct DC. The F1T is your radio! Call Williams Today!

ALINCO DJ-560T - Our regular sized, full featured twin band 4/70 H/T. Has 40 memories, DSQ, subtone enc/dec included - nothing else to buy! BIG 700 mah battery pak, direct DC, Twin LCD readouts. The DJ-560T is the lowest priced advanced featured twin bander on the U.S. Amateur market. 6.6x2.24x1.2.3-in.

ALINCO Mobile Power



DR-599T

ALINCO DR-599T - Our finest ergonomic designed twin band mobile rig. 45W/35W on 2M & 450 MHz. 40+ memories, cross band repeat, remote control via DSQ equipped H/T. Receives AM aircraft, and W-I-D-E receiver coverage. Remote head with optional EDC-20 kit. The DR-599T is the "premier" hi-tech dual bander on the market today Call Williams and learn more today!

DR-570T



ALINCO DR-570T - The fully loaded twin band 2/70 mobile transceiver from Alinco. 45/35 watts, cross band repeat, full cross band duplex W-I-D-E receive coverage. 20 Memory channels, subtone encode & decode included, duplexer included. All you need in one package to work 2M and 450 MHz.. Call Williams now!

ALINCO DJ-162T - Our best economy handheld for 2M. 20 memories, subtone enc., DSQ, odd splits, Batt. Save, APO, Backlit LCD readout. Receives AM acft., priority, call channel. 5.6x2.14x1.25in. BIG 700 mah battery back, 5W on DC. Call Williams for your DJ-162T today. We'll charge your battery and include mod. instructions.



DR-162T



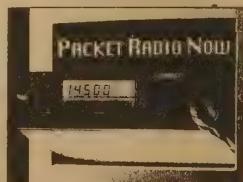
DR-119T

ALINCO DR-119T - New 2M mobile, with ergonomic design. 50W power, subtone enc/dec included. 14 memories, scan, up/down tun on mike. Great for mobile 2M operation. Spring Loaded mobile bracket.

DR-112T - 45W 2M Mobile transceiver, 14 memories, CTCSS enc/dec, rev. operation. TT

ALINCO DR-1200T - Born for Digital. The DR-1200 is designed with circuitry to optimize the passing of digital audio. 9600 baud modifiable. 14 channels, 25-watts. Wiring instr. for most current TNCs on market. Call!

DR-1200T



Please add \$4.00 shipping UPS. If you call for UPS COD, we'll pay all COD charges, you pay shipping. N.C. residents add 6% sales Tax. Prices & specs are subject to change without notice or obligation.

Williams guarantees the best overall deal anywhere. Priced competitively, with the Williams extras: *We guarantee your radio 100%* on arrival or we replace it. We provide all mod. sheets FREE. We charge your H/T battery. Extra 5% customer discount on Alinco Accessories. Phone help available. No wonder Williams continues to be the #1 Alinco Dealer. Our customers know

Public Service Report

Hank Black - N3ESR

(301) 340-8595

Material for the PUBLIC SERVICE REPORT can be left to N3ESR on the WA3ZNW packet bulletin board on 145.090 MHz, called by telephone, or mailed electronically by modem on arrangements, or mailed to Public Service Report, 105 North Van Buren St., Rockville, MD 20850-1860.

Deadline for receipt of material is the third of the month.

SHENANDOAH VALLEY ARC SUPPORTS FORT VALLEY RIDE

The Shenandoah Valley Amateur Radio Club supported the Fort Valley 100 Ride some call "The Old Dominion Ride."

Irv - KD4BHV, Mike - KD4EPZ, Jane - KD4IET, Tom - KD4ENQ, Austin - KD4IEW, Allen - WA2RPX, and Phil - KD4OXS put in as much as 20 hours on the event. (Phil - KD4OXS had just received his call a few days before.)

On June 20th the Shenandoah Valley Amateur Radio Club (SVARC) supported the ABBA Walkathon with Walt - WA4HVU, Chuck - KD4GYU, Allen - WA2RPX, Mike - KD4EPZ, and Jane - KD4IET.

The SVARC supported the Loudoun Mile on June 27, 1992 with Sean - WD4RPV, Jack - WB4SXJ, Tom - KD4ENQ, Mike - W4ACC, Frank - KE4KF, Allen - WA2PRX, Rick - KD4HRI, Mike - KD4EPZ, Bettie - KD4PKX, Walt - WA4HVU, Irv - KD4BHV, Jane - KD4IET, Neill - W4LOG, Cliff - KD4TZ.

Thanks go out to all who worked on these events.

-Submitted by Walt Johnson, WA4HVU.

DISTRICT OF COLUMBIA EMERGENCY COORDINATOR IS SILENT KEY

As this issue went to press, the Public Service Column Editor learned of the passing on Saturday, July 4th, of David Drysdale - N3JGL, a member of the Capital City Amateur Radio Society and the District of Columbia Emergency Coordinator (EC). About a month ago, Dave was admitted to a local hospital for an illness of an undiagnosed nature. It was only shortly before he died that he was found to have cancer.

Dave was recently appointed EC for the District of Columbia replacing Ken Williams - N3AQG. During Dave's tenure as EC, he was quite active in the Amateur Radio Emergency Service (ARES) and served as the ever efficient secretary to the National Capital ARES Council.

Dave - N3JGL was supportive of and participated in many local area public service events. Most recently he served to coordinate and manage the communications for the Cherry Blossom Festival Parade.

As a recently licensed ham, Dave set out to do the best job while enjoying the hobby. In the short time that most in the public service community of ham radio came to know Dave, he was always volunteering to help out in any way that he could in spite of his pristine involvement with Amateur Radio.

David Drysdale - N3JGL will be sorely missed by many of us including the District of Columbia and surrounding suburban communities who received the benefit of his efforts in public service.

Columbus, IN 47201.

(Continued)

Public Service Report - Continued

NEW SECTION EMERGENCY COORDINATOR FOR VIRGINIA

Verbal confirmation has been received by this column's editor on the appointment of Wes Myers - KB4PW as the Section Emergency Coordinator for Virginia, replacing Steve Czaikowski - WB4ZTR.

Wes can be contacted at (703) 989-4334 or Packet BBS @ N4MGQ. His address is 7921 Oakcrest Avenue, S.W., Roanoke, Virginia 24015



No, that is not a Russian Dance

A closer look will show it is Dan - KC4OCG stringing coax at the Weather Service

PUBLIC SERVICE CALENDAR

Aug 1 Winchester Junior Trialathon
 Winchester, Virginia
 Contact Walt Johnson - WA4HVU (703) 667-1474

Aug 2 Winchester Trialathon
 Winchester, Virginia
 Contact Walt Johnson - WA4HVU (703) 667-1474

Sept 5-7 Children's Festival
 Wolf Trap Farm, Virginia
 Contact Ed Ober - KC4EFJ

Sept 13 100 (70/30) MS Bikeathon
 Fairfax County
 Contact Ed Ober - KC4EFJ (703) 591-0422 or
 Bob Lewis - N4SCK, (703) 830-3495



SKYWARN

Skywarn Activities

June, as always, provided a number of ample opportunities to exercise the SKYWARN severe weather spotting network. As a group, we get more experienced with each activation and the National Weather Service (NWS) has come to rely upon our reports during severe weather.



During each of the June activations we ran two (2) simultaneous nets. The primary net was on 147.300 (WA4TSC Bluemont Repeater). The second net went from repeater to repeater to confirm reports from the NWS' instruments that indicated severe weather was occurring in a specific location. For example on June 24, 1992, the second 2-meter net was variously used to access the Warrenton (147.165 NZ4N), Manassas (146.97 WA4FPM) and Waldorf (145.35 KA3TQD) repeaters as a number of severe thunderstorm cells moved from the Warrenton-Manassas area southeast toward Calvert County. Reports from SKYWARN spotters in these areas confirmed 1/2-inch hail and estimated 50-mph winds. The licensees and support groups of all the repeaters in the region are thanked for giving SKYWARN permission to use their repeaters as needed. The system would not work without this incredible level of support. We have also made it a priority to immediately read the NWS special weather statements over BOTH nets to keep Amateurs informed of developing severe weather situations in the areas most likely to be affected by them.

I would like to thank the many Amateurs who indicated an interest in being trained as net controllers. Because the watch and warning area of the NWS is scheduled to take on additional counties in October, formal net controller training will not be held until these plans solidify and are integrated into SKYWARN net control procedures. In the interim, we have arranged for a number of new net control volunteers to operate actual nets under the guidance of previously trained net controllers. The new net controllers have done an excellent job, and I thank the previously-trained net controllers for taking the time to pass on their skills. We continue the invitation for other volunteers, especially those Amateurs who are available weekday afternoons. These volunteers are needed to enable the SKYWARN Amateur Radio station to be staffed for the inevitable afternoon thunder storms. Anyone interested, please contact Dan at (703) 281-2358.

We now have Skywarn T-shirts! The T-shirts are orange, sizes medium to extra-extra-large. They have the SKYWARN orange, black and white logo on the front, and the words "Severe Storm Spotter" on the back. Please contact Dan or Barbara if you are interested in acquiring a Skywarn T-shirt. They cost \$10 each. Proceeds from the sale of the T-shirts will be used to maintain and upgrade the SKYWARN Amateur Radio Station and to support the SKYWARN Program.

The forecasters have been bitten by the Amateur Radio bug! We are running a novice/tech licensing course for the forecasters and Jim Bellville has already passed his novice written exam. And for those who will ask, the forecasters MAY NOT participate in Amateur Radio SKYWARN activities while on the NWS payroll.

Dave Drysdale - N4JGL, the EC of the District of Columbia, passed away on July 4, 1992. He was very a very big supporter of SKYWARN activities overall and was instrumental in developing a severe weather reporting network in the District as well as making great progress in coordinating Amateur Radio with the DC government. We wish him peace and thank him for his efforts.

After many years of hard work, Steve Czaikowski - WB4ZTR resigned from his position as Section Emergency Coordinator for Virginia. Steve has always been a big supporter of the SKYWARN program and was instrumental in getting me started in the right direction when I began as net manager. I thank him for his support, his help in getting SKYWARN packet off the ground and especially for his map containing the Virginia SKYWARN regions and contact people which is now part of the SKYWARN operating manual. Thanks for all of your hard work, Steve!

Dan - KC4OCG

Training Classes

Robert Armstrong, WA4SQL

44 South French Street, Alexandria, VA 22304

Phone (703) 751-2294

Novice and Technician Training Classes, Herndon, VA. Starting September 12. Sponsored by the Herndon Repeater Group. Classes are free but will be limited to 35 people. For information Contact Mike Weber - WB8RDN at (703) 450-2304 between 7:00 and 9:00 p.m.

Novice and Technician Training Classes, Temple Hills, MD. Starting September 14. Sponsored by the Southern Maryland Amateur Radio Club. Classes will be held on Mondays from 7:00-9:00 p.m. Classes are free. For information call Ray Simpson - WI3A (301) 894-0606 or Vic Curtis - WA3YUV (301) 888-1388.

Entry level training course leading to the Novice/Technician (code)/Technician (no-code) Amateur Radio Licenses. Alexandria, VA. Starting September 14. Monday nights from 7:30 to 9:30 p.m. and will run for about 14 weeks. Sponsored by the Mount Vernon Amateur Radio Club and the Alexandria Radio Club. There is no charge for the course, however, students will be expected to provide study materials costing about \$30. For information and location, contact John Forrest - WZ4A at (703) 971-3905

Novice Training Classes, Towson, MD. Sponsored by BRATS. Classes are being held on an on-going basis every Tuesday evening at the Towson Armory. Classes are free; Materials (which you can keep) consist of a book and tape and cost \$19.90. For registration or information, contact Joe Chidester - W3SHZ (410) 602-0353

Novice Training Classes, N.W. Washington, DC. Sponsored by MADRAS. For more information contact Larry Ziecheck - N3GKZ (301) 984-6112.

VIRGINIA TRAFFIC TRAINING NET - 3685 kHz 6:30 p.m. daily. 5 - 8 wpm.

SLOW CODE PRACTICE NET, 28.250 MHz 7:00 to 8:00 p.m. Wednesdays. Sponsored by Woodbridge Wireless, Inc.

Please keep Auto-Call advised of Training Classes

GENERAL INFORMATION

Alexandria Radio Club	John Forrest - WZ4A (703) 971-3905	NASA/Goddard ARC	Vikki Gigante - KA3PVS (301) 249-2609
Anne Arundel	Tony Young - WA3YLO (301) 262-1917	Ole Virginia Hams	John Fritsch - N4YOB (703) 791-5995
Arlington ARC	Fred Bardsley - WD4DHW (703) 533-0372	Pentagon ARC	David Boyd - K9MX (703) 756-1817
Baltimore ARC	Phone 1-800-HAM FEST	Rock Creek ARA	Walt Ramsey - AK3B (301) 949-3954
BRATS	Joe Chidester - W3SHZ (410) 602-0353	St. Mary's County ARA	Call (301) 862-2214
Chaverim, Inc.	Bob Teitel - W3IDT (301) 654-3484	Shenandoah Valley ARC	Guy Black - W4PSJ (703) 722-4952
Fauquier ARC	Bill Mills - KC5PF (703) 937-4090 Herndon	Southern Maryland ARC	Vic Curtis - WA3YUV (301) 888-1388
Repeater Grp	Michael Weber - WB8RDN (703) 450-2304	Southern Patuxent ARC	Dwayne Kincaid - WD8OYG (301) 586-2177
Laurel ARC	Pud Reaver - W3DQI (301) 498-6293	Stafford Adult Education	Jerry Mullinix - AC4HK (703) 659-3905
MADRAS	Larry Ziecheck - N3GKZ (301) 984-6112	Sterling Park	Mark Johnson - WS3N (703) 430-3804
Maryland Mobileers	John Baugus (301) 551-3161	Tri County ARC	Al Sines - WA3QGA, Box 710, College Park
Montgomery ARC	Ken Nichols - KD3VK (301) 977-5405	Vienna Wireless	Paul Wilkins - AB4CY (703) 560-2779
Mount Vernon ARC	John Forrest - WZ4A (703) 971-3905	Woodbridge Wireless	Loyd Davis - K8EI (703) 360-0248

FOUNDATION FOR AMATEUR RADIO
Volunteer Examiner Cooperative

Nancy Draheim - NK4U
3513 Old Post Road, Fairfax, VA 22030
(703) 691-0078

SCHEDULE OF EXAMINATIONS

NOTICE: If you presently have a Technician class license which was acquired prior to March 21 1987, keep a copy of this license available when you decide to upgrade to General class. It will be your responsibility to prove you are grandfathered for Element 3B (General Theory).

Jul 26 BRATS HAMFEST (Timonium, MD) (Laurel VEC)
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.

Jul 28 Maryland Mobileers ARC (Annapolis, MD) (Laurel VEC) Pre-registration
Contact: John Kohl, KO4A (410) 757-8148

Aug 1 Hampton Roads Radio Assn. (Hampton, VA) (W5YI VEC)
Contact: Bill Runyon, N4BDH (804) 487-8611
Middletown VE Team (Middletown, VA) (ARRL VEC) Limited walk-ins
Contact: Walt Quitter, NC4B (703) 869-5241

Aug 8 Anne Arundel Radio Club (Davidsonville, MD) (Laurel VEC) Walk-in
Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083
Massanutten ARA (Harrisonburg, VA) (ARRL VEC) Walk-in
Contact: Marshal Cooper, N4ZKH (703) 856-8012 (6-9 p.m.)
Mount Vernon ARC (Alexandria, VA) (Laurel VEC) Walk-in
Contact: Frank Mackey, N4GUS (703) 455-1510
Richmond, VA (W5YI VEC) Pre-registration required
Contact: Dow Pierce (804) 232-8128

Aug 9 Bedford Amateur Radio Club (Bedford, VA) (ARRL VEC) Walk-in
Contact: Paul Beach (703) 297-4197

Aug 14 Piedmont Technical Center (Culpeper, VA) (ARRL VEC) Pre-registration requested
Contact: Bill Brown - AC4KP (703) 547-3089

Aug 15 Laurel ARC (Laurel, MD) (Laurel VEC) Pre-registration desirable
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.

Aug 20 Baltimore ARC (Towson, MD) (ARRL VEC) Walk-in
Contact: Robert Kennick (410) 426-8255

Aug 26 Maryland Mobileers ARC (Glen Burnie, MD) (Laurel VEC) Pre-registration
Contact: Jerry Gavin, NU3D (410) 761-1423

Aug 29 Herndon Repeater Group (Herndon, VA) (ARRL VEC) Pre-registration required
Contact: Mike Weber, WB8RDN (703) 450-2304

(Continued)

Volunteer Examiner Cooperative - Continued

Sep 12 Anne Arundel Radio Club (Davidsonville, MD) (LARC VEC) Walk-in
Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083

Mount Vernon ARC (Alexandria, VA) (Laurel VEC) Walk-in
Contact: Frank Mackey, N4GUS (703) 455-1510

Sep 19 Laurel ARC (Laurel, MD) (Laurel VEC) Pre-registration desirable
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.

Sep 20 ARRL Roanoke Division Convention (Virginia Beach, VA) (ARRL VEC)
Contact: Ed Brummer, W4RTZ (804) 898-8031

Sep 20 Baltimore Radio Amateur TV Society (Baltimore, MD) (Laurel VEC)
Contact: Les McClure, W3GXT (410) 833-8667

Sep 29 Maryland Mobileers ARC (Annapolis, MD) (Laurel VEC) Pre-registration
Contact: John Kohl, KO4A (410) 757-8148

Oct 9 Piedmont Technical Center (Culpeper, VA) (ARRL VEC) Pre-registration requested
Contact: Bill Brown - AC4KP (703) 547-3089

Oct 10 Anne Arundel Radio Club (Davidsonville, MD) (Laurel VEC) Walk-in
Contact: Nancy Alley, NT3Z (301) 761-7115 or Bob Israel, WC3I 262-5083

Williamsburg Area ARC (Williamsburg, VA) (ARRL VEC) Walk-in
Contact: Andrew Swanson, WJ4X (804) 253-2811

Massanutten ARA (Harrisonburg, VA) (ARRL VEC) Walk-in
Contact: Marshal Cooper, N4ZKH (703) 856-8012 (6-9 p.m.)

Mount Vernon ARC (Alexandria, VA) (Laurel VEC) Walk-in
Contact: Frank Mackey, N4GUS (703) 455-1510

Richmond, VA (W5YI VEC) Pre-registration required
Contact: Dow Pierce (804) 232-8128

Oct 17 Laurel ARC (Laurel, MD) (Laurel VEC) Pre-registration desirable
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.

If you presently have a Technician class license which was acquired prior to March 21 1987, keep a copy of this license available when you decide to upgrade to General class. It will be your responsibility to prove you are grandfathered for Element 3B (General Theory).

NOTE: All examinations require that you submit:

Copy of your current Amateur Radio license (bring original)
Completed FCC Form 610.

Check for appropriate examination fee.

Fees of individual VEC may vary.

ARRL VEC Exam fee is \$5.40

W5YI VEC Exam fee is \$5.40

Laurel VEC Exams, all tests are free.

Mountain VEC Exams, all tests are free

This schedule of examinations appears each month in Auto-Call Magazine
Sponsored by the Foundation for Amateur Radio

DX DX DX

John Kanode, N4MM

THE FUTURE OF DXING

At the January 1992 ARRL Board of Directors Meeting, The DX Advisory Committee was tasked to predict where DXing will be in 10-15 years in the future. Jim Maxwell - W6CF has been appointed as sub committee chairman for this effort. If you have any ideas and suggestions, feel free to send your comments along to the DXAC. Just send them to DXAC, ARRL in Newington, CT and they will be copied and sent to all committee members. Some of the items that this sub committee will be looking at are listed below.

- * Long haul, HF DX. No satellites, moon bounce or VHF
- * DX, 5, 10, 15, 20 years into the future
- * The DXing game
 - a) What is DX?
 - b) Why work DX?
 - c) Who works DX?
 - d) Benefits of DXing to Amateur Radio
- * Our overloaded bands
 - a) Our frequency resources
 - b) The numbers game
 - c) Challenges to our frequencies
- * Sociological trends
 - a) Malicious interference
 - b) The movement towards code-free licenses
 - c) Nets
- * Technological trends and their implications
 - a) The digitization of radios
 - b) The computer revolution in progress
 - c) High power-low cost
- * The DXCC program and its future
 - a) Awards programs
 - b) The honor roll
 - c) Member contact
 - d) QSLing
 - e) Field checking
- * The role of the ARRL in the future
 - a) Awards programs
 - 1] Types of programs (e.g., DXCC)
 - 2] Administration
 - 3] Fees
 - 4] Field checking
 - b) Enforcement
 - c) Legislative
 - d) Education and training
 - e) Member contact
 - 1] HQ
 - 2] DXAC
 - 3] Board
 - 4] Other field organizational work

I am sure there are other DX related issues not listed above that will be studied by this sub committee. Now is the time to submit input to be considered.

NEW DXCC COUNTRIES (SOON)

The DXAC will be acting soon to add the new countries that were part of Yugoslavia to the DXCC list. At this time it looks like Slovenia, Croatia, Bosnia/Hercegovina and Macedonia (or whatever it will be called) will be added. Also Czechoslovakia has or will be divided into two separate states. If this happens, then there will be more new ones to add to the DXCC list. At this rate, one will be able to get a basic DXCC by just working countries in Europe.

UPCOMING DXPEDITIONS

TF/F Iceland July 19 Aug 5
P5 North Korea On hold, problems to be resolved

UPCOMING DX CONTESTS

YO DX Contest	August 1-2
European DX Contest CW	August 8-9
SEANET SSB Contest	August 15-16
SARTG Worldwide RTTY Contest	August 15-16

DX DX DX - Continued

DX TIDBITS

The DXAC has voted on three issues. The first decision concerned making Ceuta and Melilla separate DXCC Countries by virtue of DXCC Rule Section II, Point 3(A), separation by another DXCC Country. The committee voted 16 to 0 against. They agreed that Ceuta and Melilla is not a Point 1 DXCC Country. For that reason Point 3(A) does not apply.

The second question was whether to delete the Spratly Islands from the DXCC Countries list by virtue of DXCC Rule Section III, (A), Annexation. The committee voted 15 to 0 against (one member abstained). The committee members felt there is not sufficient evidence to support this action.

The third vote was on deleting the Southern Sudan from the DXCC Countries list by virtue of DXCC Rule Section III, (B), Unification. The committee voted 14 to 1 against (one member abstained). In the opinion of the committee there was not sufficient sign of change to justify this action.

☒☒☒

Challenges

Heard Island. VK9NS is planning a DX-pedition to VKØ (Heard Island) this winter. This could be the last chance as sunspot cycle 22 declines. KR4M is challenging DX-loving friends across the U.S. and around the world to match his personal contribution of \$40 toward the expedition. Send contributions to VK9NS, Box 90, Norfolk Island 2899, Via Australia.

(Submitted by Cliff - KR4M)

KL7 Motorcycle Mobile. Al Brodgon - K3KMO and his 14 year old son are planning to operate motorcycle mobile on a 10,000 mile trip up the Alaska Highway this summer, during the Highway's 50th anniversary year. Al would like to contact Washington-area hams during the trip. A special color photo QSL of the motorcycle mobile is being printed. He promises to reply to all incoming cards. (An SASE will be appreciated.) He expects to be on the air most days from July 26 to August 26, generally between 1200 and 0200 UT and operation will be mostly within 5kHz of 7.037, 14.037, 21.037 and 28.037.

Al has been operating motorcycle mobile for some time now, to the amazement and amusement of the hams on 40-meters. The antenna is an extended Hustler and the keying paddle is mounted on the left handlebar grip (he is a southpaw). He has condescended to take along a mike, in case of dire emergency.

(Submitted by K3KMO0)

Foundation Meetings

The Foundation for Amateur Radio, Inc. meets at 8:00 p.m. on the second Wednesday of each month.

Visitors are always welcome

Phone (301) 725-5822 for information

The next meeting will be on August 12 in Takoma Park, Maryland
Columbia Union College Science Building Auditorium, Flower Avenue

Talk-in on 147.18

Take Colesville Road off the Beltway (Exit 23 S)
East on Franklin Avenue to Flower Ave., South on Flower Ave.

Elmer's Corner

By Scott Schaefer - WR4S

This column will be devoted to guiding new Amateurs through some of the common questions and problems encountered by all of us in our hamming endeavors. Many of the questions that come up regard the virtual plethora of equipment that is available on the market. I plan to give a brief synopsis on what's out there and what are the best buys for a new Amateur. I will also try to help out on problems pertaining to setting up a station. Send us your questions and we will try to provide the answers. Any input that might be helpful to newcomers will also be most welcome.

Write or phone me at 107 Melody Lane S.E., Vienna, VA 22180 (703) 255-7264

Last month we started talking about going down the road to the purchase of your first 2-meter FM rig, and I suggested examination of "handheld" as a possible choice. The advantage of a handheld is its portability and independence from an external power source. The disadvantages are low transmit output power, and in some cases handhelds lack the circuitry required to inhibit adjacent channel interference.

Back in the old days, handhelds were large, crystal controlled, and very expensive. Today the market is awash with small, synthesized, and quite reasonably priced rigs that have functions and abilities that amaze and dazzle.

If you think that a lot of your operating is going to be done while commuting, looking at a "mobile" rig will be a better choice. As with the variety of handhelds on the market, there is also a wide choice in the mobile rigs. Making the choice of exactly which one will do the best job for you is a tough one, but looking at what is available to the community, I'm confident in most of the rigs the manufacturers have to offer.

After years of "output wars" between the various companies, the output power of most 2-meter mobile rigs has now settled down to 50 watts. This level of output is plenty for most applications. Receiver performance is also quite similar in most cases, so making a decision based on specifications is pretty much awash. There is an excellent publication by CQ magazine called the *Buyers' Guide* that will give you an excellent overview of the different radios available.



Gil Cartoon Book

up ground from the chassis of your car. (Some cars actually have a positive potential on the frame.) Most car manufacturers have a bulletin on two-way radio installations and it will pay to ask for it. There can be some very helpful hints applying to your particular make of car.

Next month we'll look at the choices in antennas and the different ways they can be installed. As with HF antenna installations, there are dos and donts in mobile antenna installations that can maximize the efficiency of your station's performance. With a little bit of time and effort on your part, you will be able to increase the effective range of your FM fun!

Stay tuned and Elmer will tell you how the *least* expensive mobile antenna installation may be the best.

Scott - WR4S

Maryland-DC QSO Party

August 8 & 9

The Antietam Radio Association - W3CWC is proud to present

The 1992 edition of the Maryland-DC QSO Party.

1600Z August 8, 0300Z August 9, & 1600 - 2359Z August 9

PHONE AND CW: Stations may be worked once per band using each mode.

CW QSOs in the CW band only! Non-Maryland stations must work Maryland-DC stations.

Maryland-DC stations may work anybody. Portables and Mobiles that change Maryland counties during the contest count as separate station in each new county of operation.

Repeater QSOs do not count. Other HF & VHF contacts do.

EXCHANGE: Exchange Signal Report, QTH and Major category of entry.

QTH is county for Maryland stations, U.S. State or, if DX, County of operation.

Major Categories of entry are - CLUB, QRP, MOBILE, NOVICE/TECHNICIAN, and STANDARD. During the on-the-air exchange, stations should only send the Major Category that reflects their highest point value.

SUGGESTED FREQUENCIES: SSB: 1.86, 3.92, 7.23, 14.26, 21.37, 28.37, 50.15, 146.55 MHz

CW: 3.643, 7.06, 14.04, 21.115, 28.06 MHz

NOVICE: 3.701, 7.126, 28.115 MHz

CW is suggested on the odd half hour. Example: 1730, 1930, 2130 UTC

SCORING: For Non-Maryland-DC Stations - Each MD County, Baltimore City and DC are multipliers (25 possible).

For Maryland-DC Stations - Multipliers are MD counties, Baltimore City, D.C., Each of the other 49 states + 1 Multiplier for working a DX station (75 possible).

Multipliers may be claimed once only - they do not repeat on different bands.

QSO POINTS: 10 Points for Club Station QSOs (Clubs in or out of MD for MD-DC Stations)

5 Points for Mobile QSOs (Mobiles anywhere for MD-DC Stations).

2 Points for direct contact by CW (including RTTY/Digital modes)

1 Point for any other valid contact.

SPECIAL NOTE: Highest Point Value per QSO applies (a CW/Mobile QSO is 5 Points)

FINAL SCORE: Add up all QSO Points and multiply by the sum of the multipliers.

SPECIAL BONUS FOR MOBILES: Mobiles may add 100 bonus points for their final score for each county outside their home from which 50 QSOs were made.

AWARDS: A MARYLAND MEMENTO WILL BE AWARDED TO THE HIGH U.S. LOG AND TO THE HIGHEST SCORING MARYLAND STATION.

CERTIFICATES will be awarded to the High Score verified from each U.S. State, Canada or DX.

CERTIFICATES will be awarded the top 10 MD-DC logs:

High scoring MD Club station; High scoring DX Club station;

High scoring Maryland Mobile: High Scoring YL (in & out of MD);

High Novice/Technician (in & out of MD)

SPECIAL: A certificate of participation will be awarded to each station not winning an award but having at least 50 QSO points in entry.

Certificates will be awarded to the top 3 SWL Logs and top 3 QRP entries.

A Plaque will be awarded to the high scoring MD-DC Club Station.

(Plaque donated by the Amateur Radio Club of Hagerstown)

Mail Logs by Sept 10 to: ANTIETAM RADIO ASSOCIATION, P.O. Box 52, Hagerstown, MD 21741-0052
Direct questions to W3AAT or WA3EOP

2nd Annual

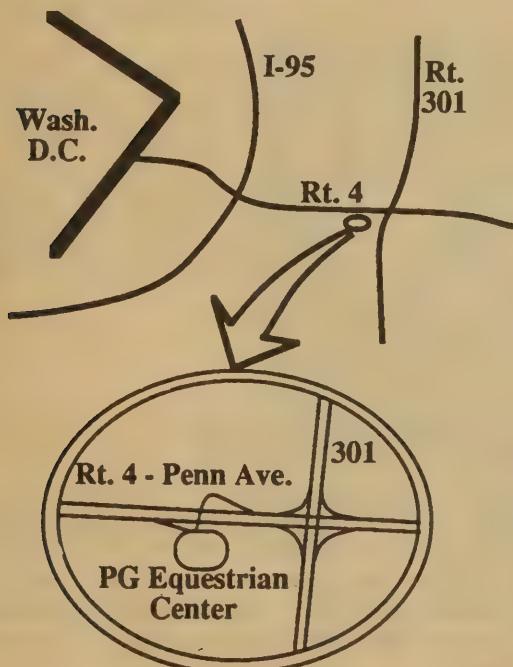
SOUTHERN PATUXENT HAMFEST

SUNDAY AUGUST 16, 1992
at the Prince George Equestrian Center
Upper Marlboro, Maryland

ALL Outdoor Fleamarket and Tailgating

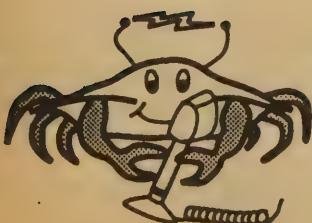
Just 7 Miles East from
Beltway Exit 11
Pennsylvania Ave. / Route 4

Vender and Tailgate Setup 7 a.m.
General Admission 8 a.m.- 2 p.m.



Rain or Shine
Advance Tickets \$3.00
At the Gate \$4.00
Tailgate Space \$5.00
Talk-in on: 147.15 Repeater
Plenty of Parking

ARRL Approved



For Advance Registration or More Information...
Mail to: Southern Patuxent ARC
1445-H Parran Road
St. Leonard, Md 20685
[410] 586-2177



Silent Keys

Norman Bach - W1HGI of Bethesda, MD died of cancer on May 27 at the age of 75. Bach was active in the Montgomery County Amateur Radio groups and participated in numerous Civil Defense activities. He was a member of MARS and AMSAT and a Fellow in the Radio Club of America. Prior to his retirement in 1986, he was a Technical Programs Specialist in Motorola's Government Relations Office. He had also worked with Monsanto Company for 40 years. He is survived by his wife, the former Patricia Beall.

(Submitted by Mrs. Patricia Bach)

Edward S. Clammer - W3UN died of a lung ailment on June 13. Ed received his license when he was 14 years old and his devotion to Amateur Radio over the next 70 years brought enlightenment to many embryonic Amateurs. He was always willing to lend a hand, always willing to carefully analyze and solve the problem of any who asked for help. Ed was an engineer with RCA for a number of years and later with Visual Electronics. He retired in 1974. He is survived by his wife, Mary Spohn Clammer of Bethesda.

(Submitted by Benjamin Wolfe - W3BC)

David Drysdale - N3JGL passed away from cancer on Saturday, July 4th. Dave was recently appointed EC for the District of Columbia replacing Ken Williams - N3AQG. During Dave's tenure as EC, he was quite active in the Amateur Radio Emergency Service (ARES) and served as the ever efficient secretary to the National Capital ARES Council. He participated in many local area public service events and most recently coordinated and managed the communications for the Cherry Blossom Festival Parade. Dave will be sorely missed by many of us including the District of Columbia and surrounding suburban communities who received the benefit of his efforts in public service.

(Public Service Report)

Chris Morrow - W4WYL succumbed to various cancers on June 18. Chris gave many years of service to the Mount Vernon ARC and will be truly missed for all his humor and hard work. He was first licensed in 1934 at the age of 16 and came all the way from Pennsylvania to Washington DC to take the examination. He wound coils on oatmeal boxes and ground his own crystals, as was the way at that time. One of his most memorable QSO's was with the Byrd Expedition to the South Pole. He worked for the Bendix Company, the U.S. Navy, and, lastly, at the Naval Research Laboratory. He is survived by his wife, Jeanette of Alexandria, VA. (Mt. Vernon ARC Newsletter)

Meet the Foundation Officers

FAR Vice President Robert Armstrong - WA4SQL is responsible for coordinating information about training classes sponsored by Foundation member clubs. He is Trustee of the Alexandria Radio Club and the Naval Research Laboratory ARC and is also a member of the Mount Vernon ARC, the Northern Virginia FM Association and ARES/RACES. He serves on the Alexandria Red Cross Disaster Team and has worked with the Gaithersburg Hamfest committee for 5 years, with major responsibility for handling security at the hamfest.

He was first licensed in 1966. His wife, Rose, is KD4ILS. Daughter, Ruth, is KB4LIF and her husband, Dan, is KA4HBU. Their son and daughter are now studying the code. Bob retired from the U.S. Navy after 22 years of service and then worked another two years at the Naval Research Laboratory.

Most of Bob's Amateur service has been in community activities. He has been a real asset to the Foundation.

Springfield Estates Elementary School Amateur Radio Club

Five club families camped out all night during Field Day, June 26-27, at Fort Hunt Park. Perfect weather and excellent radio conditions made FD'92 a memory that will be cherished for years to come by these young first-time Field Day participants. Families involved were Luke & Keith Ward, Ben & Sam Mudrak, Daniel & David Keegan, Will & Bill Schmitt, and Matt & Jim Wilson. The kids and their dads had fun, learned lots, and added their share of QSOs to the Mount Vernon Club total of more than 2,000 contacts.

Election of Club officers took place during the meeting of June 12. The newly elected officers range in age from 9 through 11 years.

President:	Ben Mudrak - KD4CNV
Vice Pres:	Will Schmitt - KD4CNX
Treasurer:	Richelle Brown - KD4MFB
Secretary:	Luke Ward - KO4IQ

Twenty-one persons who attended the June 12th meeting also voted unanimously to purchase a second-hand 10-meter SSB/CW transceiver for \$70 - which about wiped out the club treasury! The Realistic brand transceiver is now the only piece of equipment owned by the club. Other equipment is on loan by generous Elmers. Bill Schmitt - KD4CNS stated that the club will be receiving at least ten copies of the new ARRL book, "Now You're Talking," plus at least ten certificates each worth \$25 toward the purchase of new Kenwood equipment.

Jim Wilson - K4BAV

Shown below is a photo taken during the Field Day activity.



Matt-KD4COA, Will - KD4CNX, Luke - KO4IQ



Recognitions



Dennis Bodson - W4PWF Roanoke Division Award

as an Air Force officer at the NSA and is now with the National Communications System as Assistant Manager of Technology and Standards. He is a Senior Member of the IEEE and a Fellow of the Radio Club of America.

The above photo shows Dr. Bodson (at left) receiving the award from Roanoke Division Director John Kanode - N4MM

(Roanoke Division Newsletter, April 1992)

John Kanode - N4MM and Hugh Turnbull - W3ABC will be the the two ARRL Director Delegates participating in the IARU Region II Conference in Curacao in September. Also attending with the ARRL delegation will be Larry Price - W4RA, Jay Holladay - W6EJJ, Dave Sumner - K1ZZ, Paul Rinaldo - W4RI and Nao Akiyama - NX1L.

Welcome Home to Paul Rinaldo - W4RI. After nine years at ARRL Headquarters in Newington, CT, and a succession of important assignments, Paul will become the Technical Relations Manager in the new ARRL Washington Office. He will be responsible for day-to-day contact with federal agencies. The office is co-located with the law firm of Booth, Freret and Imlay, Suite 204, 1233 20th Street NW, Washington, DC 20036.

Paul most recently served as manager of Technical Development at ARRL and Editor of QST. He was a member of the U.S. Delegation to the 1992 World Administrative Radio Conference. Before his ARRL employment, Paul was very active in the Washington Area and the AMRAD organization.

Perry Williams - W1UED will continue to conduct legislative affairs from both the League's Washington and Newington offices.

Empire of the Air Will be Rebroadcast August 5 and 8

If you missed that fabulous TV program about the development of radio, you will have two more chances this month. WETA - Channel 26 will rebroadcast the entire 2-hour program at 9:00 p.m. on Wednesday August 5 and again at 7:00 p.m. on Saturday August 8.

The program deals primarily with the three empire builders of the radio industry: Sarnoff, Armstrong and DeForest. It includes film clips, original sound tracks, photos and interviews from the early days of radio and weaves a fascinating story of the development of radio and the personalities and conflicts involved. The original showing brought tremendous response and demand for rebroadcasts. Don't miss it this time.

42nd. ANNUAL SHENANDOAH VALLEY AMATEUR RADIO CLUB

WINCHESTER HAMFEST COMPUTER SHOW
SUNDAY, AUGUST 2nd., CLARKE COUNTY RURITAN
FAIRGROUNDS, BERRYVILLE, VIRGINIA
BREAKFAST, SNACK BAR, RURITAN'S FAMOUS CHICKEN & BEEF BARBEQUE!

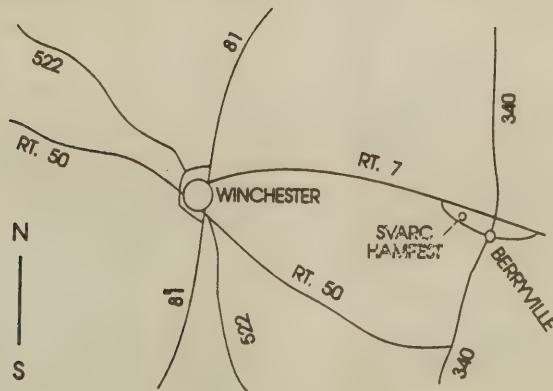


APPROVED
HAMFEST



V-E EXAMS
SATURDAY AUGUST 1
AT LORD FAIRFAX
COMMUNITY COLLEGE
BY MIDDLETOWN VE TEAM

Talk in 146.22-82 & 52 Simplex



Gate Opens at 6:00 A.M. - Admission \$5.00 - Tail-Gaters / Tables \$7.00
For Info. Call Walt WA4HVU 667-1474 or Write
SVARC, P.O. Box 139, Winchester VA 22601

Sterling Park Amateur Radio Club

Meetings:	Third Monday of the month except December, July and August At Sterling Community Center Annex, Church Road (Rt. 625) near Route 28, Sterling, Virginia
Mailing: Information:	Box 599, Sterling, VA 22170 Dick Maylott - W4LMJ (703) 430-3842 or Joe D'Angelo - WB2SAI (703) 444-1252

Club members are taking a needed summer break after a very busy and interesting past several months. Our next meeting will be our annual open house. It will be held at 8:00 on Monday, September 21, at the Sterling Community Center Annex. No formal business will be conducted, and all local amateurs are cordially invited to attend. We particularly encourage hams in the Sterling-Reston-Herndon area to join us for an informal get together, share some light refreshments, and meet some other local hams.

Two of our last three meetings have featured field trips. In April, we travelled to the National Weather Service here in Sterling, where Barbara McNaught discussed the SKYWARN program. Following the discussion, we were treated to a tour of the facility. While we enjoyed seeing the ham shack that is used for SKYWARN communications, we were most impressed with her demonstration of doppler radar. Our June meeting featured a trip to British Aerospace where Mark Johnson - WS4N showed us the facility, and then gave us an opportunity to experience a flight simulator. The reality of a modern, computerized, flight simulator is unbelievable. You literally see, hear, and feel what goes on when the many cockpit controls are adjusted by the pilot/operator. Through computerization, you can choose your airport, weather conditions, time of day, etc. Until you experience these sensations first hand, it is hard to believe how impressive modern flight simulation can be.

Sandwiched in between the two field trips was an outstanding, and impressive presentation by astronaut John Barto - W4NYZ. John served as Payload Specialist aboard the Challenger space shuttle mission 51-F. He was one of the licensed hams aboard the flight in which Tony England - WA0SIR provided SAREX communications to the ham community. John's fascinating presentation included film and slides

from the flight, presented from a very personal point of view which you just couldn't get through the media. We thank Dave Williams - K7HMP for arranging for this speaker, as well as our earlier SKYWARN presentation.

Of course, no summer article would be complete without a discussion of field day. Once again, Bill Rowlett - KC3ATU served as coordinator, and Floyd Martin - W4RW provided his call as well as his time. Dave - WB4AKC had no problem hitting the top of the light posts at Park View High school with his new sling shot and fishing reel device, so our antennas were high and effective. Our planned "2A" operation became "3A" when Steve Harrison - KO0U showed up with a full station including rig, antenna, and computer! In addition to Bill, Floyd, and Steve, other key players this year included Jerry Geil - N4PCU, Will Saylor - AC4AP, Mark Johnson - WS3N, and Forrest Snyder - N4UTY. I'm sure I missed a few of the key players, and of course, many more of us also contributed in a smaller way. This was the first time we had used computerized logging and dupe checking. All agreed from our limited experience this year, that it should be expanded in the future.

If you visited us during Field Day, you had an opportunity to see the new club staff and tee shirts which were obtained through the efforts of Ken Ness - KA3FNH. Although Ken has now moved to Pennsylvania, Joe D'Angelo - WB2SAI is now collecting for a new order. If you haven't seen these good looking shirts, I'm sure you'll see some being modelled by members at the Berryville hamfest.

I guess that about brings us up to date. As the song says, "See you in September"!

Dick - W4LMJ

Prince George's Wireless Assn.

Meetings:

First Working Tuesday of each month, 7:30 p.m., American Red Cross Service Building, 6206 Belcrest Road, Hyattsville, MD 20782
K3CEZ

Club Station:

Mailing:

Information:

4109 Kennedy Street, Hyattsville, MD 20781
Frank Holton - WA3ZMW (301) 927-1245

At our June 2 meeting, someone mentioned that the Club could participate in "Field Day" this year. A motion was made and now Field Day 1992 is history. This is how it went.

We decided to hold this "Fun" event in a 20 foot square grassy corner of the paved parking area behind the Red Cross building. Due to existing condition, we couldn't set up until Saturday morning, June 27.

Frank - WA3ZMW brought his yard tools and worked for two hours clearing away thorny brush near the 8 foot fence bordering the parking area. A tarp canopy was tied to a rope stretched from a fence post on one end to a tree limb on the other. Canopy supporting posts were then installed.

Portable folding tables were placed under the tarp to hold the radio gear. We placed the portable generator away from the canopied area to cut down a noise problem. Hersh (Dan) Miller - W3SWD manufactured a 40-meter sloper antenna and also made up a G5RV installed as an inverted Vee. Using a ladder, the ends were tied through their insulators to surrounding trees.

Charles - KA3COT brought his Kenwood TS-820-S, tuner, SWR/Watt meter, and other goodies to operate on 40-meters. Dan - W3SWD proceeded to set up the TS-120-S, the second station, hence - class 2A for reports. A Sola voltage regulator was also placed in the power feed from the generator. We also had a line voltage meter to monitor voltage constant.

Finally, with excitement bursting, we got on the air. Dan - W3SWD made the first contact on CW and Charles - KA3COT and N3HLY made some SSB contacts. We operated until 11:00 p.m. Saturday night and then we had to fold up shop until 9:00 a.m. Sunday, June 28. Sunday we operated until 2:00 p.m.

What a great time was had by all. We didn't break any records, by far, but the camaraderie, jokes and sharing donuts and coffee along with some of the crazy phonetics given out by contacted stations and their call signs, can't be equalled. Thanks to Frank - WA3ZMW, Dan - W3SWD, Charles - KA3VCQ, Tung Wu - WA3NSI, Jim - N3LYB, Ken - N3HLY and a visitor Carter - N3GRX from Anne Arundel. Hey! "Let's do it again next year."

Ken Easton - N3HLY



Frank - WA3ZMW, Charles - KA3COT, Dan - W3SWD



W3SWD, KA3COT, Ken - N3HLY, John - N3LYB

Vienna Wireless Society

25 Years of Public Service

Meetings:	2nd and 4th Fridays of each month, 7:30 PM
Repeaters:	Vienna Community Center, 120 Cherry Street, Vienna, VA K4HTA/R 146.085 in/146.685 out, 222.340 in/223.940 out, 448.250 in/443.250 out, 443.375 in/448.375 out
Nets:	Vienna Emergency Net every Thursday at 7:30 p.m. 146.085 / 146.685. Pow Wow Net every night except meetings at 9:00 PM on 28.444
Information:	Slow Speed Code every night except meetings at 8:30 p.m. 28.390 MHz
Training Classes:	Margy Patterson - N2JRG (703) 620-1727
Mailing Address:	Paul Wilkins - AB4CY (703) 560-2779 P.O. Box 418, Vienna, VA 22183

We had a great Field Day!! We were set up at Burke Lake Park in our usual place. Set-up on Saturday went so smoothly that everyone was able to have a nice relaxed lunch provided by our chief chef Paul Wilkins - AB4CY. The worst part of set up was of course watching the 30 foot tower with the 20 meter beam on it. I seem to be the only one who thought it awful but it was MY CAR underneath it. It actually went up fine but I have a good imagination.

We ran 5A with added Novice, packet and satellite stations. We had some of the usual small problems associated with setting up "in the wild," but nothing we couldn't handle. It was a small tent city with operating tents and sleeping tents. There was one major difference this year. In the background there was a professional disc golf tournament. I had never heard of professional frisbee but it was fun to watch from the 20 meter tent. They even marked "RadioLand" on the tee cards. We were fortunate to have a couple of news reporters visit us and we did get on channel 8 Fairfax news.

I'm sure we'll have a good score when the numbers are tallied but I don't think that's what Field Day is all about. I think Field Day is watching our recent novice class graduate who is still waiting for his call getting hooked on 20 or talking to a ham from Moscow who was able to spend Saturday with us.

Our June 12th meeting featured club member Bill Mills - KC5PF. Bill's work took him overseas to Saudi Arabia about two years ago. He talked about the club station HZ1AB. He explained the great difficulties involved in obtaining any type of radio equipment in Saudi Arabia. The club station was very fortunate to receive a number of items considered surplus by troops going home after the war. They were quite pleased with some rather large wire antennas including a 160 meter delta loop and Beverage antennas as well as a Rhombic that was built. Our June 26th meeting was of course devoted to Field Day. We were reminded of rules, regs and safety items by our fearless leader Art Van Wagen - N4JMJ. After making sure our plans were set our past President Pat Crosby - KA4FHA helped us to get in the mood by showing slides from last year's Field Day.

Margy - N2JRG



Voice of America Amateur Radio Club K3VOA

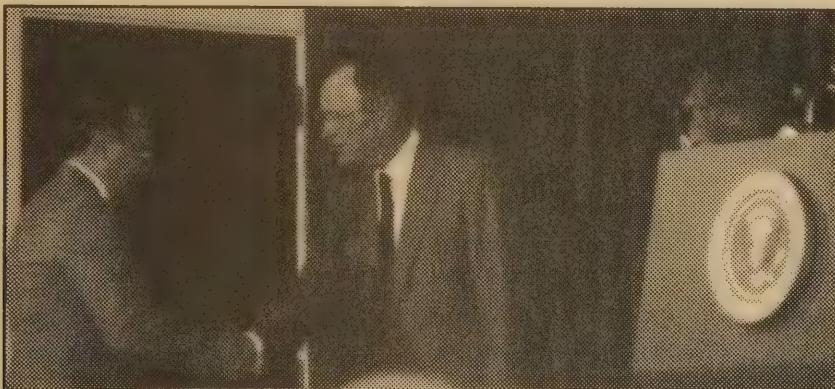
Meetings: First working Thursday of the month

Mailing address: U.S. Information Agency, c/o VOA Mail Room, Code 73
Washington, DC 20547-0073

Information: E. Allen Brown - WA3FYZ (202) 619-2020 (days)

The Voice of America Amateur Radio Club became the newest member of the Foundation for Amateur Radio at the July 9 meeting. For our first column in Auto-Call, we would like to recognize one of our club members, Walter J. La Fleur - W3EVD.

A *Presidential Rank of Distinguished Executive* award was presented to Walter J. La Fleur on January 23 for "sustained extraordinary accomplishment in management of programs of the U.S. government and for leadership exemplifying the highest standards of service to the public. . ." The award was presented by President Bush at a White House ceremony. La Fleur is Director of the Bureau of Broadcasting's Office of Engineering and Technical Operations.



A graduate of New Mexico State University, La Fleur spent 20 years with NASA. He first served as Director of NASA's Bermuda Space Tracking Station (1960-1967) and soon afterwards became Head of the Tracking Data Systems Branch at the Goddard Space Flight Center (1967). In 1980 he was named Deputy Director of Networks at the Goddard Space Flight Center. He joined VOA in 1984 to serve as the Deputy for Operations for the OETO, and was later named to his present position.

Le Fluer has also received the Exceptional Service Medal (1973) and the Outstanding Leadership Medal (1981) from NASA, the Presidential Meritorious Senior Executive Rank Award (1989), and Senior Executive Service Performance Awards (1986-1988, 1990).

xxx

AMSAT-NA Annual Meeting and Space Symposium October 8 - 10

All interested in space and Amateur satellites are invited to attend this exciting meeting. It's a perfect opportunity to catch up on the latest developments in the design of Phase 3D as well as digital techniques for use on Pacsats and in other Amateur Radio applications.

For further information, write or call the AMSAT office (301) 589-6062.

Goddard Radio Club

WA3NAN

Meetings:	Third Wednesday of the month at 5:00 p.m. Goddard Radio Club Station, Soil Conservation Road, Greenbelt Maryland, across from the Soil Conservation Road gate of the Goddard Space Flight Center. This road may be accessed from either Route 193, Greenbelt Road, or Powder Mill Road.
Repeater:	146.835 MHz
Net:	Information net every Thursday evening at 9:00 p.m. local time.
Information:	All Amateur Radio operators are welcomed. Net Control is Pat Gossard - N3KGY. Chuck Sommer - N4OSD (301) 794-3280 or Vikki Gigante - KA3PVS (301) 249-2609

We have a new slate of officers for the year 1992-1993. Elected at the May meeting were:

President: Chuck Sommer - N4OSD
Vice Pres: Vikki Gigante-Hueber - KA3PVS
Secretary: Carolyn Keydash - N3DON
Treasurer: Jim Blackwell - N3KWU

Board of Directors:

Jim Gass - N3CJN
Stan Iarosis - N2US
John Hueber - KA3PVM
Dave Gossard - N3DRL

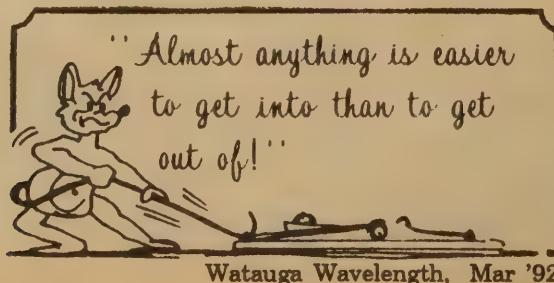
Congratulations to all of the new officers and the board! Thanks so much to Ken Hersey and Bill Graettinger for all of their help as Treasurer and Board Member in the past year! They did a great job.

We were operating around the clock for STS-50 for 13 days. It was a SAREX mission and also had the U.S. Microgravity Lab as the payload on board. STS-46 is currently scheduled for July 16. This means that we're going to be real busy for the next month or so.

STS-49 was a big success. We were operational during the whole mission and that was without the Shuttle Retransmission Director running the show - she was given the mission off for the purpose of recovering from the birth of her little girl. Pat and Dave Gossard did a great job of scheduling, getting snacks, opening and closing the station and generally keeping the thing going. Kudos and thanks to both of you!

Thanks also to John Baugus, Al Nollemyer, Hugh O'Donnell, Hugh Turnbull, Frank Turano, Jack Stevens, Alex Benitos, Jeff Nucciarone, Jim Gass, Pat Kilroy, Bill Boston, Bill Count, Bill Graettinger, Joe Grzesik, Carolyn Keydash, Mark Steiner, John Stolarik, Bill Dobson, Stan Siuta, Gary Anderson, Ken Nichols, Rich Zwirko, John Gainsborough, and all of the others who helped keep us on the air this mission.

Vikki - KA3PVS



Adams County Amateur Radio Society

Gettysburg, Pennsylvania

Meetings:	1st Monday of the month (except for March, June, Sept, and December) 7:30 p.m. at the Emergency Operations Center, Adams County Courthouse, Gettysburg, PA Quarterly dinner meetings, 1st Tuesday of March, June, Sept., Dec. At the Gettysburg Bonanza Restaurant.
Repeater:	WB3CVM 145.35 out
Club Call:	WC3ADD
Nets:	RACES 2-meter - Tuesdays, 7:30 p.m. PA RACES - 3993.5 KHz - Sundays, 8:30 a.m. HF Net - 7.278 Mhz - Thursdays 6:00 - 8:00 p.m.
Mailing:	34 York Street, Gettysburg, PA 17325
Information:	Walt Lane - W3KGN (717) 334-5518 or Bob Lauder - WB3DEX (717) 642-6259

The Adams County Emergency Management Agency, directed by Richard Ketterman - KA3MGU, provided and maintains an Amateur Radio Station (WC3AAD) with both HF and VHF equipment and a 2-meter repeater located in the EOC.

The new repeater is a Motorola with an Advanced Computer Controls RC-96 controller. The newest feature is the voice identification. Other features include an emergency auto dialer, user auto dialer, auto patch, special voice and CW announcements and a bulletin board. David Arendt - KA3VEI has devoted many hours to programming the repeater.

The Adams County Emergency Operations Center is in the process of converting from a seven-digit emergency number (334-8101) to an advanced 911 system. ACARS members have been provided with special codes to quickly reach both the EOC and the State Police via the auto-patch.

As this is being written, ACARS is anticipating a visit from ARRL Atlantic Division Director Hugh Turnbull - W3ABC and Vice Director Kay C. Craigie - WT3P on June 11. ACARS plans to provide a tour for them of the newly renovated EOC facilities and a demonstration of the new repeater.

On May 4th, the slate of officers, nominated at the previous meeting, was elected for the coming year. ACARS officers are:

President: Walt Lane - W3KGN
Vice Pres: Hank Rajotte - KA3GVA
Secretary: Graham Bugbee - WB3BQC
Treasurer: Bob Lauder - WB3DEX

In April and May, ACARS members demonstrated Amateur Radio to two groups: Boy Scouts and sixth-grade students.

The Black Walnut District of the Boy Scouts of America Spring Camperall was held at the South Mountain Fairgrounds on April 25th. ACARS, which had participated in this annual event for a number of years, was asked to set up a ham station for demonstration purposes and to instruct Webelo Scouts (9 - 10 years old) in various aspects of communications. This year, five groups of 10 to 15 Scouts were given a 45 minute demonstration.

The station consisted of two hand-held 2-meter transceivers, a 2-meter base unit, and Kenwood 520S and 140 HF transceivers. Sloping dipoles were erected, using a 60 foot pine tree for support. A discone at 30 feet was used for 2-meters.

The 2-meter phone patch, using the ACARS repeater, was very popular with the Scouts and several were able to call home on the 2-meter link. CW was also demonstrated but only a few CW contacts on 40-meters were completed, due to QRN. A substantial amount of ARRL literature was distributed, including the Archie Ham Comic books, a very popular item with the Scouts.

ACARS members participating this year included: Hand - KA3GVA, Graham - WB3BQC, David - KA3VEI, and ACARS newly licensed member Steven - N3BVA.

(Continued on page 36)

Northern Virginia FM Association, Inc.

Meetings:	3 times per year (fall, spring, winter)
Weekly Nets:	NVFMA Net: Every Wed., 8:00 PM local, 146.79
Repeaters:	ARES/Public Service Net, Every Sun., 9:00 p.m. local, 146.91 On Air Equipment Clinic, First Wed. 7:30 p.m. local, 146.79 2-Meter: 146.79- (W4LBL-FFX City) & 146.91- (W4XG-Tysons Corner) 440 Mhz: 444.75+ (K4JYF-Tysons Corner) 220 Mhz: 224.50- (WB4YHD-FFX City & X-linked to 146.79) 224.34- (KB4CVL-Tysons Corner) 1292.1 MHz out / 1272.1 MHz in (K6LEW-Tysons Corner)
Membership Info:	Norm Rosenthal - KB4VLP, (703) 425-7108 or Margaret Lindsley - KB4IKU, (703) 818-8182
Mailing Address:	NVFMA, P.O. BOX 486, McLean VA 22101

The NVFMA operates two 220 megahertz repeaters. The first is 222.5/224.10 - the WB4YHD repeater. This 220 megahertz repeater is co-located with the 146.19/16.79 repeater in the Massey Building in Fairfax City. This repeater is a Kendecom Solid State transmitter and receiver. A low noise GaAs FET pre-amplifier is used for state-of-the-art receiver sensitivity. An RF power MOSFET amplifier is used to provide a transmit-output power of 100 watts. The duplexer is a 4-cavity Cellwave. The antenna is a 6DB gain Sinclair collinear. The repeater operates at 200 watts ERP.

The user-selectable cross-link to the 146.79 repeater is in place to provide autopatch capability for 220 megahertz users. The touch-tone command 79* initiates the link. Use 79# terminates the link. An activity timer

automatically drops the link if no 220 megahertz signal is received within 10 minutes. All features of the 146.79 repeater are available to the 220 megahertz user when linked except the voice S-meter.

The second 220 repeater is a 222.74/222.34 KB4CBL repeater. This repeater is co-located with the 444.75 repeater in Tysons Corner, and features a Mirage amplifier with an Austin 6.6-dB antenna and a 6-cavity Wacom duplexer, with 280-watt ERP. Since this is one of the highest locations in Northern Virginia, the coverage is exceptional. These machines are maintained by Steve Floyd - WB4YHD, Sam Ruffin - KM4OI and Mike Ryan - KB4CVL in addition to the rest of the NVFMA TAG committee.

Dan - KC4OCG

Adams County Amateur Radio Society - Continued

For the past 17 years, the Bermudian Springs Middle School has been holding a two-day Environmental Education Program for sixth graders at Camp Nawakwa, located near Arendtsville, PA. These students spend two days and one night at the camp, participating in programs and crafts.

On May 12th, two ACARS members, Jess - KA3IWE and Leon - N2ENC had four groups of 12-15 students for 45 minute Amateur Radio demonstrations. The students found the 2-meter hand-held transceivers of great interest and ACARS member Cathy - WB3HYN deserves many thanks for talking to the students from her home. Like the Boy Scouts, these students found it fascinating to be able to talk to their parents using the phone patch. A code tape was played and they were able to hear some actual CW conversations on the HF transceiver. Jess used a bow and arrow to install a 40-meter dipole in a tree.

Bob - WB3DEX

Tri-County Amateur Radio Club

Meetings:	Semi-annual business meetings, time and date announced on the air and in the club newsletter.
Repeater:	KA3LAO/R, 147.780 MHz in; 147.180 MHz out.
On-the-air:	Tuesdays at 1930 hours (Local time).
Mailing:	Amateur Radio Newsline Tuesdays at 1915 hours (Local time). P.O. Box 10592, Silver Spring, MD 20914

It is hard to believe that the summer is nearing an end. August always brings with it our desire to get all those summer things done that we put off earlier in the year. Some schools start up the end of this month so now is the time to start planning for those license upgrade classes as well as honing our ELMER skills for the younger members.

You may recall that during the beginning of July the west coast was hit with a series of strong earthquakes and our area was hit with several days of heavy thunderstorms. These events serve to remind us that the time to think about emergency preparedness is now, before it is needed. The Amateur community has always been quick to mobilize to lend help in these types of emergencies but it could be improved. During an emergency is not the time to be learning message handling techniques or proper net operations. The Tri-County repeater, like several others in the area, hosts a RACES/ARES organization. The Prince Georges RACES/ARES net meets on our repeater on Mondays at 2100 local (except the 4th Monday when they have an eye-ball get-together) for information, training, and other emergency preparedness activities. Take a moment while the weather is better to assess your personal ability to function during an emergency. Consider the effects of loss of electricity, water, telephone, or other services. Ask yourself the question "can I provide for my family as well as become operational to help others?". If you want to learn more about proper emergency operating techniques, contact your local RACES/ARES organization. Feel free to join the PG RACES/ARES net on Mondays if you have additional questions.

Now that August is upon us our thoughts naturally begin to go to the upcoming hamfest season. Be sure to mark your calendars for our second annual hamfest, Holidayfest '92, to be held at the P.G. Community College, Largo, Maryland, on December 6. Everyone who participated last year had a good time and

we expect that this joint effort with the Goddard ARC will be even better this year. If you have not been in on the planning and operation of a hamfest, this is an excellent opportunity to help in whatever way you can. Join our on-the-air net and we will be glad to direct you to the appropriate committee chairperson.

Heard On The Repeater:

This feature of our report attempts to provide useful suggestions for efficient and effective use of the repeater:

- Autopatch users need to make sure that their calls are strictly personal in nature. Our trustee will not be a happy person with anyone making calls that even appear to be business related. We need to all ensure that the rules are followed to keep this service available.
- There have been a number of conversations recently about occasional difficulties accessing the repeater. Despite the various interesting theories that have been discussed, the reason is really quite simple. As you know during the summer months repeaters to the north which operate on the same frequency as ours frequently can be heard quite well. The multi-receiver sites of our repeater greatly increases the possibility that these signals will be picked up and will lock up the machine. Our control operators will occasionally shut down the specific receiver sites which are most suspectable to the interference. While this will reduce the amount of interruption to normal repeater operations, it could affect the areas you normally can access the machine. As soon as the interference subsides the receiver sites are reactivated.

All are welcome to join the Tri-County on the air net which meets each Tuesday at 1930 local. Make sure that you are listening at 1915 to hear the latest NewsLine information, ARRL bulletins, and the latest exam schedules.

(Continued on page 38)

Herndon Repeater Group

Meetings:	On-the-air meetings every Monday at 9:00 p.m.
Repeater:	N4FXP/R 144.71/145.31 MHz
Packet BBS:	145.09 MHz
Mailing:	Herndon Repeater Group, P.O. Box 5073, Herndon, VA 22070
Training:	Michael Weber - WB8RDN (703) 450-2304
Information:	Michael Rosati - N4FXP (703) 481-8380

Exams: The Herndon Repeater Group will sponsor ARRL VEC exams on Saturday, August 29 and November 21 in Herndon, VA. Call Mike - WB8RDN to register.

Training Classes: HRG will sponsor its annual Novice/Technician course from September 12 to November 14 at a local Herndon church. See the training column in this issue of Auto-Call for details. Flyers have been circulated throughout the area.

Field Day: HRG participated in Field Day from the Lake Fairfax Park in Reston as a 4A Battery QRP entry and scored just over 9000 points. The weather was excellent and everyone had A great time. Special thanks to the HRG Field Day chairman Bill - N4WJN, for organizing the effort, to John - KI4RO for the use of his callsign, to Don - KD4CHU and Steve - KA1LM for equipment, and to Phill - W3ICF for the loan of his 65 foot mobile crank up tower.

Congratulations: HRG congratulates Mike - N4FXP and Ruthie Rosati - N4QGT on the birth of their son, Matthew (no call yet), and to Jack - N4ULS and Stephanie Anderson also on the birth of a second child, Scott.

New Members: HRG welcomes the following new members: Phill - W3ICF, John - K4XH, Nancy - KD4JD, Mary - KA4WLK, Larry - KC4SQJ, and Louis - N4KWP.

New Callsign: HRG member Dick Bubeck has a new callsign. He was KD4JVW and is now KQ4AK.

Special Thanks: Thanks to HRG member Craig Kendall - WA3RGH for his constant assistance in locating facilities for HRG training classes, exam sessions, and for his liaison with the local newspapers promoting HRG activities. Also, watch for an Amateur Radio promotional video featuring HRG activities and members on the local Herndon Cable TV system. This effort is being headed up by Dave - KD4ITS.

Loaner Program: Please support the HRG equipment loaner program which makes equipment available to newly licensed HRG members. Contact the program Manager, Chris - WA1ZXX at (703) 430-2877.

Have a Happy Summer.

Mike - WB8RDN

Tri-County Amateur Radio Club - Continued

New members are always welcome to join the Tri-County ARC. We have a family membership plan which makes it convenient for our growing amateur families. For membership information contact us at the post office box, join us during one of the Tuesday net meetings, or contact Paul - N3GII, Tri-County Membership Chairman.

As vacation time is upon us, don't forget that Tri-County ARC also operates a repeater in Ocean City on 147.015 (KA3BAF). All are welcome to use this machine when in the area.

Greg - WA3FSC

AMRAD

Amateur Radio Research and Development Corp

Meetings:	Second Thursday of each month, Fairfax County Library, McLean, Virginia
Repeater:	WD4IWG 147.81 MHz in, 147.21 MHz out. Director, Jeff Brennan, WB4WLW
	WD4IWG is an open repeater for FM voice and digital communications, especially for experimental modes. Autopatch available to members.
Data Address:	Our internet address is Ikestel@csugrad.cs.vt.edu .
AMRAD CBBS:	(703) 734-1387 Operated by Lawrence Kesteloot - N4NTL
	E-Mail address is Ikestel@csugrad.cs.vt.edu
Information:	Andre Kesteloot - N4ICK (703) 356-5519 or Terry Fox - WB4JFI 703) 698-7612

Presentations at the June meeting included a brief explanation of assembly programming, by Andre - N4ICK; a review of the Hartford VHF conference and demonstration of a 10-GHz fresnel lens antenna, by Joe - NA3T; and details of a microsat to be launched in July 1993, by Mark - N4TPY. The featured speaker at the July meeting was Paul Rinaldo - W4RI, lately of Newington. Paul gave a brief run-down on WARC, then spoke on future systems in Amateur Radio.

AMRAD members and the AMRAD portable repeater supported several public service events:

- May 30-31 - 100-mile Run, Woodstock and Fort Valley, Virginia
- June 13-14 - OD 100-Mile Endurance Ride, Fort Valley, Virginia

Our thanks to all the hams who have worked these events. Shenandoah Valley ARES has kindly assumed management of these public service events. While AMRAD has managed these activities for a number of years, other commitments now necessitate that some group closer to the scene manage the events.

Current and Up-Coming Activities:

We hope to have some microwave equipment on the air soon with the modification of some surplus 4-GHz receivers which we hope to retune to the 3456-MHz or 5650-MHz Amateur bands. These have stable oscillators, band-pass filters, and quality IF amps.

Work continues on the 10-GHz beacon/repeater, and it should be on the air soon. We plan another session to modify/tune up 10-GHz sources. Field tests of 10-GHz equipment are planned, to be followed by some mountain-topping. Planning is underway for the ARRL 10-GHz Contest (August 15-16 & September 19-20). Anyone interested should contact Dave Rogers - N4JGQ @ (703) 237-5465. We would like to coordinate activity for the benefit of everyone.

Anyone interested in technical topics or any of the AMRAD projects is invited to come to one of the monthly meeting or join us for lunch. We meet every Saturday @ 1230 hours, at Taco Rio Grande on Rte 123 in Vienna. AMRAD repeater for talk-in.

Dave - N4JGQ

Recognize those new Amateurs in your life With a Gift Subscription to Auto-Call

We will send a nice Gift Certificate in your name, upon request.
Start them off on the right foot.

Let them know how proud you are of them,
And introduce them to another important facet of Amateur Radio

T-MARC

The Middle Atlantic FM and Repeater Council Frequency Coordinating Committee 1419 Larch Road, Severn, MD 21144

T-MARC will announce the date and time of the Council's Annual Meeting in the next issue of AUTO-CALL. Tentatively, the meeting is scheduled for Sunday, September 20, 1992. The Council is soliciting items on policy, procedures, or others for the meeting agenda. Please watch this space for full details in the next issue.

RECENT COORDINATION ACTIVITIES

The frequency coordinating committee at its last meeting coordinated a proposed new 442.950 MHz repeater at Trappe, Maryland, south of Easton to K3SVA.

The committee coordinated a proposed new 449.075 MHz repeater on the east side of Baltimore, Maryland, to N3HIA and KA3VSF.

A proposed 146.745 MHz repeater near Lexington Park, Maryland was coordinated to WB3CZI.

Coordination for a proposed new 442.000 MHz repeater in eastern King George's County, Virginia was granted to the Stafford A.R.A.

The committee coordinated a proposed new 147.195 MHz repeater on Catoctain Mountain near Thurmont Maryland to N3EJT.

Re-coordination for the 147.345 MHz repeater to a new location south of Baltimore at Hanover, Maryland was granted to MARCOM.

The committee issued a six-month temporary coordination for operation on the Two-Meter Repeater Builder's Channel (145.17 MHz) to Chaverim of Northern Virginia. After the test period is over, T-MARC will attempt to find a permanent frequency for this machine.

Department of State ARC

Meetings:	First working Monday of each month at 1200 Noon. Main State Department Bldg, Room 3524, Washington, DC
Foreign Service Net:	Every Sunday, 1500-1530Z on 14.316 1530-1600Z on 21.416 and 1600-1630Z on 28.416
Repeater:	W3DOS/R 145.19 MHz (open rpt), Round Table, Thursdays 2030L W3DOS/R located at 23rd & D Sts. N.W. Washington, D.C. DOSARC encourages repeater use for public service events in Washington area (e.g., Mall) and for general usage.

Another FD has come and gone - a quick review of DOS results would indicate a successful and good time was had by all.

DOS operated in category 2A at the Temple Hills Recreation Center. Those participating included: K3ZO, W7VPK, WB4J, K3TW, N0MCL, KG3R, KM4P, N6CZG, N4VA, NP4AQ, W4HU, N4JR.

A preliminary tally of activity indicated a total of approximately 1050 contacts - evenly split between CW and SSB.

Equipment included a FT-757 and TS-930S powered by a single KW Honda generator.

Antennas, installed by K3TW and N6CZG, included a CL-33 supported by ropes at the 40 foot level and an 80 meter doublet fed with ladder line at the 65 foot level. All antennas were installed by Bow & Arrow and fishing line. K3ZO and K3TW were high scorers of the group.

Tom - K3TW

Montgomery Amateur Radio Club

Meetings:

1st and 3rd Wednesdays of each month at 7:30 p.m.

Executive Office Bldg. Montgomery Co. Government Center,
101 Monroe St., Rockville, MD. Park underground on G-2.

Repeater:

146.355 in (Rockville & Germantown)/146.955 out (Rockville)

Mailing:

M.A.R.C., P.O. Box 611, Gaithersburg, Maryland 20877-0611

Information:

Jeff Horlick - KZ3F (301)258-0112; Steve Todd - K2IYQ (301)253-4172

Training:

Ken Nichols - KD3VK (301)977-5405; Dick Hayman - K3DML (301)251-8721

The Montgomery Amateur Radio Club's June 3rd meeting was distinguished by a newsworthy business session, followed by a lengthy Field Day Planning Session. For the record, Jeff - KZ3F conducted the former, while Rick - K3YNY presided over the latter.

KZ3F noted that the KV3B Memorial Fund has accumulated approximately \$2800 in the year since John - KV3B (charter M.A.R.C. member) passed away. The scholarship fund continues to grow; donations are welcome at any time; if you feel so inclined, please see M.A.R.C.'s Treasurer, John - KA3QFL, to contribute to this worthy cause....

M.A.R.C. also extends hearty congratulations to Ross - WA2WDT for the mini T-MARC Repeater directory he generated using a Personal Computer Auto-Cad program. Faithful readers of AUTO-CALL can find Ross's handiwork in the June 1992 issue of the magazine! This practical "pull-out" reference guide can be used as a "fastpath" geographical directory of all the 2-Meter, 220, and 400 MHz Repeaters currently coordinated by T-MARC.

Also, at the M.A.R.C. meeting of June 3rd, Ken - KD3VK was happy to announce that he had "worked himself out of a job". Ken meant, of course, that he had found a capable and willing M.A.R.C.onian to chair the Novice Enhancement and Training Service Committee (NEATS). The worthy candidate is Don - N3LHZ. Even better, Don already has 4 additional M.A.R.C. volunteers to work on the "hardware maintenance" aspects of the task! They are: David - WA3ZOR, Roger - KA4ATI, Tom - KA3WLL, and Alex - WX3Q. The Club wishes to thank these talented Radio Amateurs in advance for the Elmering contributions they will be making toward providing new hams with usable "loaner" equipment and thus get a "jump start" in the hobby....

Alas and alack, your Amateur Reporter was out of town on business when M.A.R.C held its second meeting for the month of June on 6/17/92. Fortunately, Steve - K2IYQ and Rick - K3YNY WERE in attendance and each has graciously assisted the Reporter in the task of "filling in the blanks." It turns out that M.A.R.C. hosted another meeting with record-setting attendance: 55 participants in all! The formal agenda consisted of a brief business meeting; an exciting program meeting; and a lengthy discussion on preparations for M.A.R.C.'s 1992 Field Day!

FYI, the following "first" and "second" readings represent recent entries into M.A.R.C.'s membership data base: Joe Wright - N3KXJ; Madeline Moses - Associate; Timothy Moses - Associate; Paul Kline - N3KRM; Marina Kline - N3KQZ; Henrik Johansen - VE6CAE; and Carroll "Jay" Horine N3KRP....

The Club wishes to heartily thank the following members who have volunteered to become "co-chairpersons" of M.A.R.C.'s Training/Education Committee: Jane - KA3YWU, Ron - N3KQY, and Roz - N3JHY. With the combined support of fellow M.A.R.C.onians and Ken - KD3VK, former Training Chairman, they can't go wrong!

By all accounts, the M.A.R.C. 6/17 program meeting was remarkable for the "show and tell" demonstration starring Claudio - KA3USC. "Dio" brought in his home-brew, 600-watt antenna tuner (with built-in SWR meter). Constructed by hand over several months from a collection of surplus ARC-5 capacitors and roller inductors, Dio's project shows what ingenuity, skill, \$50 worth of spare parts, and hard work can lead to--even in this post-modern age of "pre-fabricated" widgets!

(Continued on page 42)

Pentagon Amateur Radio Club

Meetings	Monthly, on the second Wednesday of the month. Noon. PARC clubroom (5B272), The Pentagon
Repeater:	K4AF/R, 444.55 MHz. CTCSS 88.5 sometimes in effect.
Packet:	145.07 Digi - K4AF, Mailbox - PARC, Node - PNTAGN
Mailing:	P.O. Box 47063, Washington, DC 20050
Information:	David G. Boyd - K9MX (703) 659-6241 (H) William Klein - N4VBW (703) 697-8157 (O) or (703) 590-2546 (H)

PARC has a new set of officers and in keeping with past practice, did not impose competence as a prerequisite for election to the presidency. We have, accordingly, installed an Air Force officer as president - Dick Lum - NH6E. Fortunately, we have several Army officers and a Navy civil servant to keep him straight so things should go well. (Ed. Note. The president will be accorded equal time in the next issue . . . or maybe there will be an Air Force correspondent by then.)

Thanks to the efforts of Mike Cash - KD4IIZ, our new treasurer, and Pat Oliver - WJ0T, all of our rigs are up and working and the hamshack is actually reasonably well organized.

Field Day was its usual great success, with most of the points racked up on CW. Mal - KB3J was our high scoring CW op again, and Dave - WC0B topped the phone lists. Dave also demonstrated his archery skills again by putting

up the lines for all our antennas. John - N4PKL provided adult guidance to the Novice station again, while we drew on the callsign of one of our pretty young YLs for the Novice station - N4VZU.

But the highlight of the month of June was Carol Perry's visit to the station. She is WB2MGP, Ham of the Year for 1987 and the best known Amateur Radio instructor in the country. She's the one who established the All Schools Net that Mike and Pat try to participate in daily. We also had a fine visit from Harry Gartsman - W6ATC, an old and loyal member who even donated an answering machine to the club.

As always, visitors to the club are welcome. Just contact any club officer and we'll arrange to get you into the building and into the ham shack.

Spike - K9MX

Montgomery Amateur Radio Club - Continued

By the time this issue of AUTO-CALL is published, M.A.R.C.'s QRP 1992 Field Day will be approaching "folklore history" in the annals of Amateur Radio. "Fail-safe" planning on the part of Co-Chairmen Steve - K2IYQ and Rick - K3YNY will have helped bring this annual event to a successful conclusion. Much of the in-depth preparation was discussed at M.A.R.C.'s 6/17 meeting. Reservations were confirmed for Loop B at Little Bennett Regional Park in Clarksburg, Md. Plans were put into place to set up 3 transmitter stations for QRP on the bands--this in addition to both a Novice Station and a Packet Station! Jim - N3KTV volunteered to provide "talk-in" on 146.955 MHz, and Al - NW2M offered to customize a logging program for Field Day contesting purposes....

Hoping this "advance preview" has whetted your appetite for more, the Amateur Reporter invites you to read the "full text" of M.A.R.C.'s 1992 QRP Field Day in next month's issue of AUTO-CALL! In the meantime, in between time, DO "stay tuned" to 146.955 MHz.

Erinn - N3HSA

Woodbridge Wireless, Inc

Meetings:	2nd Tuesday of each month, at 8:15 p.m. [note time change]
Repeater:	Canteberry Woods WB4FQR/R 147.84/24 and 449.9/444.9 WB4GJZ/R 223.18/78
Nets:	Mondays, 8:00 p.m. local (0100 UTC) 147.84/24, 223.18/224/78 (the repeaters are linked for the net.) Wednesdays, Slow CW at 8:00 p.m., 21.164 MHz Saturdays 9:00 p.m. - in new 10 Meter Novice band 28.460 MHz SSB
Mailing Address:	P.O. Box 112, Woodbridge, VA 22194

FIELD DAY

Field Day was kind of a sleeper for anything 20-Meters and up. At night the bands were as cold as the weather. The guys on 40 and 80 seemed to have all the fun this year.

The Hoadly Toadlys (a loose association of FD veterans named after an early FD site on Hoadly Road) held their annual meeting Friday night at dusk. The "ancient and mystical order" inducted several new "Tadpoleys" into its ranks as "Frogs". One veteran, OP - KF4TE, was upgraded to the rank of "Bullfrog" in this once-a-year Field Day tradition.

Memorables include the 40-meter phone position with an 80 foot tower supporting a double extended zepp antenna (they got out!), and moving the 20-meter CW position (camper, equipment, 30-foot tower and beam) shortly after the start of the contest because of interference. Thanks to W4IY (whose call we use for FD) for another excellent job at the food tent. The midnight chili was at its biting best and was good for warming some cool operators!

We once again used Terry's (WA5NTI) packet/logging software to connect 5 of our 9 stations to Tent Central via packet local area network.

Ed Zed - N4LJZ, the PR manager, arranged to have a reporter from the Potomac News on scene and WWI was featured in a nice article about Amateur Radio on Monday following Field Day.

4TH OF JULY

July means Independence Day and that brings the Dale City 4th of July parade and the Prince William Runner's Club Firecracker 4 mile race. WWI again provided safety and coordinating communications for this totally civic event. Thanks to Dale - WA2IKI, Aaron - KD4FBN, Ed - KD4KBT, Bob - KD4PUR, Gerald - KC4RGD, Dick - AC4OM, OP - KF4TE and Larry - K0LB for their support. At the end of the parade (which was telecast on Columbia Cable) the announcer recognized the WWI contribution. WWI and Amateur Radio again received well-deserved kudos.

Note that the new "no code" Amateurs were well-represented at the 4th of July parade. They are a breath of fresh air for clubs such as WWI. They've got a lot of enthusiasm and are anxious to participate in public service. Furthermore, most all are working on the code, trying to upgrade. We have youngsters (under 15 years) in the club in greater numbers than we ever thought possible. Without the code as a high hurdle to getting started, many young (and older) Amateurs seem to be able to get in and get a good run at advancing as hams. Their contributions will go a long way to preserving Amateur Radio in the U. S. as a viable service. They are the extras and leaders of tomorrow.

That's it for this month. Keep your antennas grounded and rigs unhooked during the summer "thunderbumper" days.

Jim - WJ4M

Anne Arundel Radio Club

Meetings:	First and Third Thursdays at 8:00 p.m. Davidsonville Family Recreation Center, Queen Anne Bridge & Wayson Roads off Md. Rt 214 near Annapolis
On-the-Air	Thursdays when there is no club meeting, 2030 Local on 147.705/105 Tuesdays at 2030 Local time on 28.410 Maryland Slow Net (MSN) every evening at 1930 on 3.7170 MHz Chesapeake Weather & Traffic Net every weekend and public holiday, at 1100 and 1500 local, from April 1 to November 15 on 147.705/105 The Aviation Net on 147.075 every Monday evening at 8:30 p.m.
Address: Information:	P.O. Box 308, Davidsonville, MD 21035 Margaret (Holly) Bevan, (301) 923-0229

The Anne Arundel Radio Club Field Day was a great success, at least in the degree of enjoyment reported by participants. The Club operated two HF stations, a packet station and a Novice station on the grounds of the Davidsonville Family Recreation Center. All stations ran low power, using batteries recharged by solar panels. The estimated point total was 3490, plus at least 700 bonus points. The operators obviously had a great time and seemed unconcerned about their placement in the final club tally and are already looking forward to "next year."

Saturday, June 20th, turned out to be a perfect day for the annual AARC Family Picnic, held at the Club site. The weather couldn't have been more cooperative, the food couldn't have been tastier and the attendees couldn't have been more congenial - many "eyeballing" each other for the first time. A great time was had by all.

At the June 18th Club meeting, U.S. Coast Guard Commander Curt DuBay - WA3SWR, Chief of Research & Development at the OMEGA Navigation Systems Center in Alexandria, gave an outstanding program on the world-wide OMEGA radionavigation system used by mariners and aviators. The OMEGA system was developed by the U.S. and is operated in partnership with six other nations.

AARC members were extremely busy during the month of April, providing communications for public service events. There were two on April 5th: the Marlborough Hunt Club Races at Roedown and the Multiple Sclerosis Walk-a-Thon in Annapolis. On April 11th, Club members worked the YWCA 10-K Run in

Annapolis, and on April 25th eight persons volunteered to help with the "Christmas in April" effort in Prince George's County. They were very impressed with the whole thing and are looking forward to helping with an expanded Anne Arundel County program next year.

On April 26th, a dozen communicators helped with the Annapolis March-of-Dimes Walk-a-Thon. Despite the rain and the below-normal temperature, \$47,000 was raised by 510 walkers.

The AARC Board of Directors voted to sponsor an "Aviation Net" to be held on the North County Repeater (147.075 MHz) every Monday at 8:30 p.m. It is popular with the growing number of ARRC members who are pilots or are connected closely with flying.

A VE testing session is held the second Saturday of each month at the AARC clubhouse by a Laurel VEC team composed of AARC members. The combined results for April, May and June sessions are: 159 exams given to 83 persons, 92 exams passed and 53 upgrades. Interest in Amateur Radio seems to be growing by leaps and bounds.

A large percentage of the Novice Class graduates have taken advantage of the free AARC membership offer (for the remainder of 1992), with more expected to come. Most of them are now Techs or higher.

As of the end of June, the AARC membership total is 379.

Holly - N3BMB

Shenandoah Valley Amateur Radio Club

Meetings: First and third Fridays of each month at 7:30 p.m.
The SVARC clubhouse at 2921 Grace Street in Winchester, VA.
Repeater: 146.22 in 146.82 out
Net: Shenandoah Valley Emergency Net, 7:15 p.m. daily, Winchester Repeater
Mailing Address: P.O. Box 139, Winchester, VA 22601
Information: Mole Baptist - KD4EPZ (703) 662-7633

The club once again has given two \$500 scholarships. Jo Ann - WB2CMV presented the scholarship at James Wood. I presented the one at Clarke County High.

UPDATE: My wife, Bettie, has received her call - KD4PKX. I have offered her half of my collection of treasures in the basement. She doesn't seem to be interested.

This has been a busy month for club members. We have supported several public service events. We helped with the Old Dominion 100 Mile Ride, the ABBA Walkathon, and the Loudoun Mile. At the Loudoun Mile, a booth was set up, we set up a small station and sent free messages. We passed out brochures on Amateur Radio and Skywarn. Then several of us went on to Field Day.

Guy - W4PSJ and myself, representing the club and QCWA Chapter 137, attended the June FAR meeting held at the Sterling Weather Center. We were given a tour of the center and a demonstration of the very fine Amateur Radio station set up at the facility. Thank you, Dan - KC4OCG and Melonie Hall for your time and effort to explain the system to us.

We have two new net controls for the SVEN. Mike - KD4EPZ will be NCS on Friday; Mark - KD4HRI will be NCS on Thursdays. The net meets each day at 7:15 p.m. on the 22/82 machine.

Don't forget the Winchester Hamfest on August 2. We will have the usual good food and plenty of shade trees, plenty of parking, Ladies Bingo.

Walt - WA4HVU

CQ Choo-Choo Special Event Station - August 28 - 29

The Anne Arundel Radio Club has chartered an excursion train, as club outing, and will operate HF, 2-meter and packet stations aboard. A special RAILROAD MOBILE QSL card has been designed for the event. Auto-Call readers will have an edge on contacting the event. This is the only public notice.

The train will travel from Union Bridge (in Carroll County) to Blue Ridge Summit, Pennsylvania and back between 1:00 and 4:30 p.m., with an outstanding buffet meal provided by the *Entertainment Line*. The HF station will operate under the club call W3PVR from about sundown Friday night, August 28 through 5:00 p.m. Saturday afternoon. It will use a 40-meter dipole above one railroad coach. That frequency will be $7.237 \pm \text{QRM}$. From 11:00 p.m. Friday to 8:00 a.m. Saturday they will use 3.920 MHz and then back to 7.237 (both LSB). Two-meter contacts will be attempted on 146.530 and packet will operate on 145.050. QSL with your card only (no SASE) to W3VPR, P.O. Box 308, Davidsonville, MD 21035.

Mark your calendar!

Tony - WA3YLO

Stafford Amateur Radio Association

Meetings:

Weekly, 0730 a.m. every Saturday morning, at the

McDonald's east of the I-95 exit to Stafford Courthouse

N4SMP/R 145.27 out 144.67 in. Autopatch for members.

Mailing: c/o George Gautney - N4SMP, 9 Skyview Ct., Stafford, VA 22554-5232

Information:

Dick Kirby - W4GFB (703) 720-0406 or

George Gautney - N4SMP (703) 659-5720

Packet:

145.07, W4GFB-2

Lots of things have been happening in SARA since the last column - which, because this correspondent has been preoccupied with retiring from the Army, finding a job and the like, was published quite some time ago.

To give you some idea how long it's been since I last wrote a SARA column, Watts - KC4WV . . . N or M - it's hard to tell the WV twins apart - has a new microwatt who weighed eight pounds when he was born just after publication of the last SARA column, but who is now taller (though skinnier) than Watts! Seriously, his name is Austin, he's approaching six months of age and Watts assures us his call will come in due time. Oh, and those who have begun to marvel at Watts' stamina at his age can relax. It's his grandson.

We know now why KO4OX has not been at many SARA breakfasts lately. We have it from an extraordinarily reliable source that he is really heavily into art nouveau films, sort of. The title of one classic is reportedly something like "Rocky, the Flying Squirrel," and then there's "Pebbles and Bam Bam," and . . . Well, you get the idea.

W4GFB has been working hard at developing aerobatics skills with his radio controlled planes. We understand he's experimenting with training the neighbor cats to fly them for him.

(Don't blame this one on me, I was talking to N4PVC and several others and I'm sure if I didn't get this story from them, I got it from . . . Well, anyway, it's not my fault.)

N4WRT is now in the hat and optical business. He can fit you with glasses, or protect a bald pate from sunburn, and he'll even throw in the callsign on the hat for nothing. At this rate, he may soon be offering sundries for every part of your head. We'll know that's happened when his next cable television commercial announces not "Stafford Optical," but the "Stafford Head Shop."

We expect Field Day scores to be pretty good this year, thanks in large measure to K4ZSD and his high speed CW. He is reported to have made nearly 700 QSOs and he didn't even operate the whole period!

SARA should be, by now, affiliated with ARRL. The packet went in some time ago. And we have at least three new hams in the area: Gary Manes (who awaits his Novice call) Joel - KD4JQF, and Kevin - KJ4QF.

We still meet every Saturday morning at the Nothin' Fancy on route one just South of Stafford. Join us for a cup of coffee or a whole breakfast and some of the darnedest lies about radio told this side of the Pecos.

Spike - K9MX



VIRGINIA BEACH HAMFEST

September 19th & 20th, 1992

Virginia Beach Pavilion



Metropolitan Communications Network

Representing Six Meters in the Greater National Capital Area

Meetings: Quarterly, on the second Sunday of the month.

Time and place to be announced.

Repeater: N3AGB/R, 52.250 MHz in; 53.250 MHz out.

Accessible on 147.36 MHz and 444.35.

On-the-air: Saturdays at 2000 hours EST

Mailing: Bob Sporn - WA3GGO, 9927 Cottrell Tr, Silver Spring, MD 20903

Information: Bob Sporn - WA3GGO (301) 434-1719

With two of our rigs repaired, yours truly is back on all of our nets. The band was open recently and our treasurer, Dave Bennett - KE3AB, worked his dad in Florida on FM simplex. Stanley Brigham - W3TFA worked W7KYM in Wyoming, his 48th state. Stan also worked Havana, Cuba on CW on 6-meters and Oregon and Colorado.

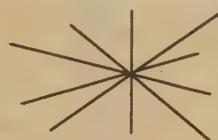
THE SUNDAY MORNING COFFEE NET (50.4) MHz at 0900 Hours. In spite of the hamfests, our net has a sizable participation. Albeit, the June 21st Frederick Hamfest did drastically reduce participation.

MARYLAND FREE STATE SIX METER SIDEBAND NET (50.125 MHz) Sundays at 2000 Hours

With the 6-meter Hammarlund FM set back in operation, our first contact on the Saturday evening net was Stanley D. Musick - KA8SFP of Stafford, Virginia, 47 miles south of us. The following evening, Stan joined us with several other check-ins via our rejuvenated Swan 250.

Bob - W3GGO

**Skypoint
Ham
Shack**



Normal business hours from 10 - 6
Mon - Fri.

Local business conducted by
appointment only. All other business
by mail order.

Herndon, Va. 22070

Call: 703-437-1559

Note new number

Ask for Gil - N4QAS

Your Source for clean used gear!

* Vintage equipment a specialty.

* Estate buys welcomed.

* Equipment repair and restorations.

* Collins equipment a specialty.

* New equipment sales welcomed.

* Dedicated to providing good clean
used gear.

* Customer satisfaction # 1 priority.

The Foundation For Amateur Radio, Inc. TM
Announces
The 35th Annual

F.A.R.FEST TM



1992



SUNDAY, SEPTEMBER 13, 1992

Montgomery County Agricultural Center (Fairgrounds)
Gaithersburg, Maryland

- **Tailgating**
- **Manufacturer's Reps**
- **Commercial**
- **Flea Markets**
- **Exams**

RESERVATIONS

All Requests for
advance table and
space reservations
contact

Nancy Draheim
703-691-0078

GENERAL INFORMATION

All other information
contact
Phil Russo
301-552-2065

W3PRL
SPECIAL EVENT STATION

"THE ONLY PLACE TO BE SEPTEMBER 13TH"

SHACK SALES

Noncommercial advertising of Amateur associated equipment is available to subscribers of AUTO-CALL at a rate of 3¢ per word -- with a \$1 minimum. Commercial vendors and nonsubscriber rate is 17¢ per word - with a \$5.50 (1 inch) minimum. Special headings or special spacing (e.g. one item per line) may be used but such ads will be charged at the column inch rate. Estate sales for Widows Assistance handled by a FAR club will be published without cost.

Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone and all ads must be pre-paid. Since no effort is made to investigate advertisers, no warranty can be implied.

Copy must be received by the 5th of the month preceding publication.

WIDOW'S ASSISTANCE

Estate of Robert Bailey - WB1FRQ

FOR SALE: SWAN ASTRO 150 SSB Xceiver, Power Supply PSU-5A, SWAN Hand mike, Bumper mount M34, brand new Delux trapped antenna T-15, 40-meter antenna (Hi-Q Balun 1:1 ratio), box of miscellaneous. Also Pioneer LP record player and 2 large speakers. Everything in excellent condition, manuals. Available to try at my house on appointment. Betsy Bailey (301) 598-5394, Silver Spring (06) (FAR)

FOR SALE: YEASU FT-101ZD; Excellent condition; HF SSB Transceiver, 10-160M. Transmitter recently aligned, includes FV-101Z EXTERNAL VFO & CUSHCRAFT AP8 Vertical Antenna, partially assembled. . \$500 George James. Call evenings: (301) 774-2117; Weekdays (301) 295-8024. (08)

FOR SALE: KENWOOD TS-520S . . . \$399 DGS Digital Readout for 520 series . . \$200 VFO 520S, external VFO \$125 TS-930S/AT Mint condition, 5 million SN with CW filter \$1,100 YESU: SP767P spk/phone patch . . . \$110 Add UPS. Tony Musero - K3UKW Phone (215) 271-8898, 1609 South Iseminger Street, Philadelphia, PA 19148-1010 (08)

Need antenna or tower work done?
Call L. Chertok - W3GRF.
(301) 297-4888

FOR SALE: ICOM W2A Handheld Transceiver, with leather case, external mike, auto antenna, roof antenna, additional battery packs, incl. alk. Like new and immaculate. Hardly used. Will not last! For best buy, call (703) 241-2288, Falls Church, VA (08)

FOR SALE: MFJ-812B VHF 144-220 SWR/watt/fieldstrength meter 30 & 300 watts scale \$20 MFJ-280 Mobile Speaker \$10 Kenwood Mc44 handmike (not TTP) for TM-331A, 631A, 731A, 241A, 441A, 541A \$10 Prices include shipping. Greg - KA3DBG Phone (301) 946-6460, Rockville, MD (08)

FOR SALE: Miscellaneous Equipment

- Kenwood Station (orig owner)
(Excellent) TS 520, VFO, 520, SP520, MC-50 Mic \$550
- 40' Telescoping mast, 18GA, New . . \$40
- Heath SB-220 Linear (orig owner)
Excellent, 80-10 \$550
- Kenwood 2-Meter Mobile TM241A
New in box \$370
- Heathkit HM102 SWR/Watt Meter . . \$25
- Bendix M-450 VHF Nav/Comm
aircrft radio w/manual \$100
- Much more. Call Lloyd - KPMW
(703) 444-7243, Sterling (07)

NORM'S ROTOR SERVICE

Rebuilt Rotors, Parts & Service
Call Norm Jeweler - K3LYW
5263 Agro Drive
Frederick, MD 21701
(301) 874-5885

G AND G ELECTRONICS
OF MARYLAND

8524 DAKOTA DRIVE, GAITHERSBURG, MD.
20877

SPECIAL SALE

We have acquired the new equipment inventory of a ham radio store that is closing.

While supplies last, we are offering hundreds of accessories from ICOM, AEA, KENWOOD, YAESU, LARSEN, RADIO WKS, HUSTLER, MFJ, and others at prices well below normal retail.

Remember,
quantities are limited, so
CALL NOW!

OPEN MONDAY & TUESDAY 11 AM - 9 PM
WEDNESDAY 11 AM - 5 PM & BY APPOINTMENT
301-258-7373

SHACK SALES

WORLD RADIO. Amateur Radio's monthly newspaper can be delivered to your doorstep for only \$14 per year (\$15.09 in California, \$24 overseas). Get the latest on how your fellow amateurs use their hobby to help others. Regular features are Contest and Hamfest announcements, Aerials, Amateur Satellites, Continuous Wave, Digital Bus, DX World, Search & Rescue Communications, FCC Highlights, Mobile, New Products, Propagation, QCWA, QRP, Station Appearance, Traffic, VE Exams, 10-10 International News. Send your subscription to **WORLD RADIO**, 520 Calvados Avenue, Sacramento, CA 95815. (Swp)

WANTED: For HEATH HW-2P or HW-4P: Battery Cases, Carry Case, Speaker-Mike. Other accessories? Nat DeGutz - W2CXB (301) 790 0161, Hagerstown, MD (06)

DXers! Improve your DX QSL Return
by copying ham sentences in 54 different languages on your card! It really works.
K3CHP'S DX QSL GUIDE - \$9.95 pp
Joe Mickuckis, K3CHP, 6913 Furman Pkwy, Riverdale, Maryland 20737 (08)

FOR SALE: Many excellent old instruments for lab and shop use. Many receivers, including six Hammarlund models. Most have accessories and manuals. More than 3000 tubes, etc., etc. For lists and prices call Everett Ingles at (301) 854-6386, Sykesville, MD (08)

FOR SALE: 140 foot Rohn 25G look-a-like guyed tower, 13 straight, 1 top section, with manuals. Will trade for some 45G or SSV sections. Sinclair 2-meter duplexer, model 202G, 4 cavities, hybrid ring, with info \$325 Dave - N3EJT (301) 474-7405, College Park, Maryland (08)

WANTED: Rohn 45G, 55G or any large commercial type guyed or self supporting towers. I will take down and remove. If your station is in need of tower or antenna work, call me. Dave - N3EJT (301) 474-7405 College Park, Maryland (08)

FOR SALE: GONSET Linear Amplifier, Model 3262, 1200 watts PEP, In good shape. Four 811 tubes. Will sell or swap . . . \$200 Bob Slaughter - K4BXZ (703) 281-3305, Vienna, VA (09)

WANTED: HAM EQUIPMENT AND OTHER PROPERTY. The Radio Club of Junior High School 22 NYC, Inc. is a nonprofit organization, granted 501(C)(3) status by the IRS and incorporated with the goal of using the theme of ham radio to further and enhance the education of young people nationwide. Your property donation or financial support would be greatly appreciated and acknowledged with a receipt for your tax deductible contribution. Please look over whatever unwanted equipment you may have and call us. We will pick up or arrange shipping. You will receive the tax deduction, but most important, the privilege of knowing that your gift really made a difference in the education and upbringing of a child. You are invited to check into the WB2JKJ "22 Crew" CLASSROOM NET at 7 a.m. on 7.238 MHz or on 21.395. We hope to meet all of our friends in Los Angeles at the ARRL National Convention, August 20 - 23. We will be presenting a forum on EDUCOM. Write us at: THE RC OF JHS 22 NYC, INC, P.O. Box 1052, New York, NY 10002. 'Round the clock HOTLINES: Voice (516) 674-4072, also FAX (516) 674-9600 (08)

STOCK QSL CARDS
100 \$14.00 - Shipping FREE
Send SASE for Samples
K3UAL Print, 1520 Jutewood Avenue
Hyattsville, MD 20785
Phone (301) 773-9383 or 773-5074 (102)

FOR SALE: 60 foot EZ-WAY three section crank-up tower and MOSELY TA33 tri-band beam - includes rotator, cable and CDR control unit. Call Pete - W3RGX at (301) 530-1528, Bethesda, MD during July/August or write 2360-B 37th Street, Los Alamos, New Mexico 87544 (09)

FOR SALE: Rohn 45 Tower, 5 sections, top bearing plate, rotor plate, anti-torque arms and thrust bearing let it down . . . \$700 Jim Devilbiss - WA3FUJ, (301) 662-5784, at 8809 Yellow Springs Road, Frederick, Maryland 21702 (08)

WANTED: For HEATH HW-2P or HW-4P: Battery Cases, Carry Case, Speaker-Mike. Other accessories? Nat DeGutz - W2CXB (301) 790 0161, Hagerstown, MD (08)

SHACK SALES

COMPUTER CORNER

FOR SALE OR TRADE: Good Ham Shack Computer system C64, new in box. 1541 drive 1525 printer, Amtex color monitor, software includes word processor business ham radio games several books on C64 programming. All for \$350 or will trade for other equipment. Walt - WA4HVU (703) 667-1474. (08)

FOR SALE: VISION AT (80286 clone) Personal Computer. Features:
1 MB RAM
80287 Math coprocessor (recently installed)
20 MB Seagate Hard Drive
5 1/4" Floppy Drive (low density)
3 1/2" Floppy Drive (low density)
EGA Video Adapter
Serial, parallel and game ports
Comes complete with enhanced keyboard (brand new, still in box) and
NEC MultiSync GS, gray scale, monitor (su
supports CGA, MDA, EGA, HGC, GB-1,
MCGA and VGA). Includes all manuals and
system software. Complete system -
(PC, monitor and keyboard) for \$385
Frank Dahnke - WB6IQV at (703) 352-3785,
Fairfax, Virginia (08)

FOR SALE: Acculogic's "RAMpAT!" memory expansion board. Supports an 80286 or 80386 computer with 16-bit PC AT expansion slots. Can be used to backfill your system's memory to bring it up to the 640K limit, and to add extended and/or expanded (LIM 4.0 EMS) memory up to 16 MB. I bought it for \$100 in February 1992, but never really got to use it. In original box, with software and manual. Asking \$50. Call Fred Dahnke - WB6IQV at (703) 352-3885, Fairfax, VA (08)

SLIDE RULES WANTED
All Types for Museum Display
Bob Hill - NK3W
200 Agnes Lane, Linthicum, MD
(410) 789-4772 Zip 21090-170205

Call JWO SERVICES

Save on Ameco; ARRL; Callbooks; RSGB; Oscillators; Code Keys; etc. Discount Prices on all; bigger savings on 10 up. SPECIALIZE IN LARGE ORDERS FOR CLUBS AND CLASSES! New! 1992 Catalog of Discounts, Free. Only pay 30¢ handling per order and actual UPS.

JWO SERVICES

6th Year Of Excellent Service

Worldwide Shipments

12 Hickory Place Camp Hill, PA 17011
Phone (717) 731-4747 MasterCard / Visa

Daily to 10:00 p.m. and weekend afternoons

(07)

"RADIO INSTALLATIONS"

Clean - Neat - Professional
If you want it done right

Call us.

Herm - K2LEQ/3
(301) 952-1414
(072)

FOR SALE: ALINCO DJ-FIT, Desktop charger, remote speaker/mic, extra battery, case \$270
DAIWA LA2035R 2-meter amp \$70
PD-88 Controller \$80
DAIWA Power supply (10A) \$70
All equipment in new/excellent condition, with manuals and original boxes. Call Chuck - KD4GYV (703) 266-9801, Centreville (08)

FOR SALE: LOWE HF-125 receiver, in good condition; has optional filters, FM detector, and key pad for frequency entry \$325
Wayne Riddle - WB4WBC (703) 538-5926, 3900 N. Chesterbrook Road, Arlington, Virginia 22207 (08)

WANTED: VHF, UHF & Microwave equipment - converters or tube-type transmitters wanted. Steve - N4IOY (703) 281-6032, Vienna, Virginia (08)

FOR SALE: HEATHKIT KW antenna tuner, SA 2040 (roller inductor) \$150
HEATHKIT HW-16 CW Novice rig with HG-10 VFO \$50
Call John - WA3WFW at (202) 667-5867, 1873 Newton Street, N.W., Washington, DC 20010 (08)

AUTO-CALL ads get results.

Let our commercial advertisers know that you read their ads and we appreciate their support.

SHACK SALES

WANTED: "OFFICIAL WIRELESS BLUE BOOKS" of the Wireless Association of America, 1st (1911), 2nd (1912) and 3rd (1913) containing call listings of U.S. Amateur Stations. **CITIZENS RADIO CALLBOOK MAGAZINE** for 1920 thru 1925. Department of Commerce "AMATEUR RADIO STATIONS OF THE U.S." for 1913, 1914, 1915, and 1916. Department of Commerce "AMATEUR RADIO STATIONS OF THE U.S." 1920 thru 1927. Department of Commerce "COMMERCIAL AND GOVERNMENT RADIO STATIONS OF THE U.S." for 1920 thru 1928. **RADIO AMATEUR CALLBOOK MAGAZINE** (Flying Horse cover) for 1926, 1935 and 1936. **CONSOLIDATED RADIO CALLBOOK MAGAZINE** for 1920 thru 1924. **AMATEUR RADIO CALLBOOK** by Radio Directory and publishing Company for 1920 thru 1925. Bob Arrowsmith -W4JNN, PO Box 166, Annandale, Virginia 22003 or call collect (703) 560-7161 (08)

WANTED: Old, odd, unusual bugs (speed keys). Smiley -WB4EDB, PO Box 5150, Fredericksburg, Virginia 22403 Phone (703) 373-0996. (09)

WASHINGTON, D.C. AREA HAMS PARADISE. 3 or 4 bedroom, living room, 2 full baths, kitchen, built-in book cases, wood stove plus gas heat. Full basement with finished radio room, office, storage room, shop area and laundry area. Underground utilities, 10 acres - no TVI! Extra large, two car detached garage with RC openers. The K4RZ fire lookout tower at 1800 feet. Walk up the steps - no climbing. Will support about anything you can dream up! 1 hour 15 minutes to D.C., 1 hour to Tysons, 45 minutes to Dulles, 5 minutes to Mt. Weather. Available at \$225,000. Call or write Frank Hoose -K4RZ, 1309 Greensprings Road, New Berne, N.C. 28560. (919) 637-7329 or phone agent Marge Burton at Chase Realty (703) 847-9111. (07)



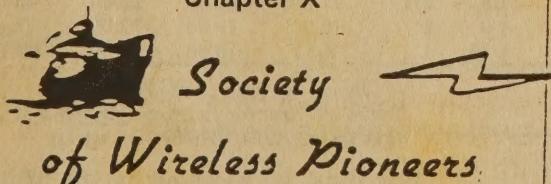
25 Years a Ham?
Got A question?
Write

159 E. 16th Street
Eugene, OR 97401

Become a part of one of the country's fastest growing vintage radio clubs. The Mid-Atlantic Antique Radio Club is an active group of radio collectors, restorers and historians. For a sample newsletter, write to Joe Koester at 249 Spring Gap South, Laurel, MD 20707. Phone (301) 725-4229. (Swp)

Attention Amateur Radio Newsletter Editors. **AMATEUR RADIO NEWS SERVICE** is an organization of publishers and editors of Amateur Radio newsletters and members engaged in public relations. Its purpose is to assist editors in any way possible. For information, write to Lee Knirko - W9MOL, 833 Park Plaine, Park Ridge, Illinois 6006

Chapter X



THE INTERNATIONAL ORGANIZATION
OF PROFESSIONAL RADIO TELEGRAPHERS

For Information Call
(703-536-9537)

**SR
M**

Serio, Romano & Mitchell
CHARTERED
CERTIFIED PUBLIC ACCOUNTANTS

JOHN T. NUTTMANN, CPA

7910 WOODMONT AVENUE
SUITE 1110
BETHESDA MD 20814
(301) 852-5040

AUTO-CALL POLICY

PRODUCTION POLICY

Copy for Auto-Call will be accepted in any form - handwritten, typed, compatible computer disk or modem. All hard copy is re-typed to preserve uniformity of style in the magazine. We use Word Perfect 5.1 word processing program, Hayes compatible modem (300 or 1200 baud) and can use either 3½" or 5¼" MS-DOS diskettes. We don't do Windows.

In determining space requirements, figure about 600 words per page (50 lines at 12 words per line), including the space taken up by headings, photographs, etc. Either black-and-white or color photos can be used as long as the contrast is good. Master copy, which is to be reproduced directly, should be in black ink on white paper and should be in proper page ratio. (Copy space is 7" wide by 9" high.) Copy can be reduced or enlarged as necessary.

Columns from Foundation member clubs are eagerly solicited and any items of general Amateur Radio interest are most welcome. The editor does reserve the right to edit or reject any portion of any copy submitted and to make minor changes to make copy fit available space.

SHACK SALES

Deadline for copy is the 5th of the month preceding the publication date. Shack Sales will NOT be accepted over the telephone. Full address must be provided for our reference but need not be published. Each ad must include the call sign or the full name of the advertiser. If the full address is not included, we prefer to include the city along with a telephone number so that readers will know whether a long-distance charge is involved. The entire telephone number - including city and state - is counted as only one word. We do not count postal zip codes. Otherwise, each word, abbreviation, model number or group of letter/numbers is counted as one word. Remittance must accompany each ad.

See next column for additional information on advertising. For further information, phone the Auto-Call editor at (703) 536-8469, McLean, VA.

ADVERTISING

SHACK SALES

Non-commercial advertising of Amateur associated equipment is available to subscribers of Auto-Call at 3¢ per word - with a \$1.00 minimum. Commercial vendors and non-subscriber rate is 17¢ per word - with a \$5.50 minimum.

Special headings or special spacing may be used (e.g., one item per line) but such ads are charged at a column inch rate - \$1.00 per column inch for non-commercial ads, \$5.50 per inch for commercial vendors and nonsubscribers.

Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone. Since no effort is made to investigate advertisers, no warranty can be implied.

DISPLAY ADS

DISPLAY ADS are "boxed" and may contain artwork or photographs. They may be placed along with the Shack Sales or displayed in other sections of the magazine. Requests for specific locations will be honored if practical but cannot be guaranteed.

Display ads are charged according to size and duration of run as shown below. All advertising must be pre-paid for at least the current month.

Page	Col.inch	Rates per Issue			
		1 Year	6 Times	3 Times	1 Time
Full	18	\$75.00	\$90.00	\$100.00	\$105.00
1/2	9	55.00	65.00	71.00	75.00
1/3	6	40.00	46.00	51.00	54.00
1/4	4½	33.00	38.00	41.00	43.00
1/6	3	22.00	26.00	28.00	30.00
1/8	2½	17.00	20.00	22.00	23.00
1/9	2	16.00	19.00	21.00	22.00
1/18	1	8.50	10.00	11.00	11.50

Based on camera-ready copy.
Extra charges for halftoning photos
and for in-house artwork or layout.

Copy must be received by the 5th
of the month preceding publication date.
(e.g., Copy for August issue must be received by 5 July)

All Advertising Must be Pre-paid



JOIN ARRL

BENEFITS FOR YOU

QST, QSL Bureau Awards, Low Cost Insurance Operating Aids,
Government Liaison and More—Much More!

MEMBERSHIP APPLICATION

Name _____ Call _____

Street _____

City _____ Prov./State _____ PC/ZIP _____

\$30 in U.S. \$42 elsewhere (U.S. funds) Licensed amateurs or age 65 or over, upon submitting proof of age, may request special dues rate of \$24 in the U.S. \$36 elsewhere in U.S. funds. Persons age 17 and younger may qualify for special rates, write for application.

For postal purposes, fifty percent of dues is allocated to QST, the balance for membership.

VISA, MC, AMEX, Discover # _____

Signature _____ Expires _____

The American Radio Relay League

225 Main St. Newington, CT. 06111 USA AUTOCALL

Atlantic Division Director
Hugh Turnbull, W3ABC
6903 Rhode Island Avenue
College Park, MD 20740
Phone: (301) 927-1797

Roanoke Division Director
John Kanode, N4MM
Rt 1, Box 73-A
Boyce, VA 22620
Phone: 703-837-1340

AUTO-CALL Magazine

P.O. Box 7612
Falls Church, VA 22040-1452

Please enter my NEW _____ RENEWAL _____ GIFT _____ subscription to Auto-Call

For 1 Year _____ 2 Years _____
Subscription rate: \$8.00 per year.

(Sample copy of latest issue \$1.00)
will be applied to subscription

NAME _____ CALL _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

Make check payable to the Foundation For Amateur Radio

AUGUST 1992

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1 Stafford <u>EXAMS</u> Hampton Rds Middletown
2	3 Adams County Dept of State IBM ARC	4 Antietam PG Wireless	5 BARC MARC	6 Anne Arundel Voice of Amer.	7 Mobileers Shennandoah	8 Stafford <u>EXAMS</u> Davidsonville Alexandria Harrisonburg
9 <u>EXAMS</u> Bedford, VA	10	11 Frederick Fauquier Woodbridge	12 Pentagon S. Patuxent --- FAR ---	13 AMRAD MADRAS Mt. Vernon No. Virginia	14 Alexandria So. Mayland Vienna <u>EXAMS</u> Culpeper, VA	15 Capital City Tri County Stafford <u>EXAMS</u> Laurel
16	17 Ole VA Hams	18 Antietam Arlington BRATS	19 BARC Goddard MARC	20 Anne Arundel QCWA #20 <u>EXAMS</u> Towson, MD	21 Rock Creek Shennandoah	22 Stafford
23	24	25 Columbia	26 Laurel QCWA #20 <u>EXAMS</u> Laurel, MD	27 MADRAS St. Mary	28 New Carrollton Vienna	29 Stafford <u>EXAMS</u> Herndon, VA
30 Adventists	31					

Nonprofit Organization
U.S. Postage Paid
Arlington, VA 22210
Permit 757

AUTO-CALL

P.O. Box 7612

Falls Church, VA 22040-1452

ADDRESS CORRECTION REQUESTED

EXP 92/SEP 02649
ALFRED A LAUN III K3Z0
PO BOX 31097
TEMPLE HILLS MD 20757

RENEWAL
REMINDER

Aug '92